

1981 Joint Association Survey

On Drilling Costs

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Independent Petroleum Association of America



Mid-Continent Oil & Gas Association

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1981 Joint Association Survey On Drilling Costs

Statistics Department

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PREFACE

The purpose of the Joint Association Survey is to provide annual information pertaining to the cost of drilling oil and gas wells and dry holes in the United States.

Drilling costs for 1981 are presented in this issue of the JAS. Section II, pertaining to expenditures for finding, developing, and producing oil and gas, has been discontinued. Comparable data is available from the Annual Survey of Oil and Gas, Bureau of the Census.

As in prior years, data for the 1981 JAS were collected from the petroleum industry through the joint efforts of the American Petroleum Institute, the Independent Petroleum Association of America, and the Mid-Continent Oil and Gas Association.

Washington, D.C.
December 1982

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JOINT ASSOCIATION SURVEY ON DRILLING COSTS—1981

SUMMARY OF FINDINGS. Findings pertaining to 1981 drilling costs and activity in the United States may be summarized as follows:

- The total cost of drilling and equipping oil and gas wells and dry holes in 1981 amounted to approximately \$36,665 million, an increase of 60.8 over 1980.
- The average depth of oil wells completed in 1981 was 4,183, an increase of 2.0 percent; the average cost per foot in 1981 was \$80.40 an increase of 21.2 per cent over the previous year.
- The average depth of gas wells in 1981 was 5,718 feet, an increase of 1.5 per cent from 1980, the average cost per foot was \$122.17 compared to \$95.16 in 1980.
- The average depth of dry holes drilled in 1981 was 5,154 feet, an increase of 0.9 per cent; the average cost per foot was \$90.03 an increase of 22.2 per cent over 1980.
- The total number of wells drilled in 1981 increased 30.3 per cent and the total footage drilled increased 31.3 per cent.
- The total cost of offshore wells completed in 1981 amounted to over \$5,551 million, an increase of 44.3 per cent over 1980. The total number of offshore wells increased 16.0 per cent over 1980 while the average depth decreased 0.6 percent. The average cost per foot in 1981 was \$384.87 an increase of 25.1 percent.
- The comparison of drilling activity and the cost of various types of wells completed in 1980 and 1981 is as follows:

	Oil Wells		Gas Wells	
	1980	1981	1980	1981
Wells Drilled	28,553	38,725	15,225	17,533
Footage Drilled (000)	117,066	161,982	85,820	100,258
Total Cost (millions)*	\$7,768	\$13,023	\$8,167	\$12,248
Average Depth (feet)	4,099	4,183	5,636	5,718
Average Cost Per Well*	\$272,070	\$336,289	\$536,402	\$698,576
Average Cost Per Foot*	\$66.36	\$80.40	\$95.16	\$122.17

	Dry Holes		Total Wells	
	1980	1981	1980	1981
Wells Drilled	18,233	24,558	62,011	80,816
Footage Drilled (000)	93,145	126,561	296,031	388,800
Total Cost (millions)*	\$6,865	\$11,395	\$22,800	\$36,665
Average Depth (feet)	5,108	5,154	4,773	4,811
Average Cost Per Well*	\$376,525	\$463,984	\$367,682	\$453,691
Average Cost Per Foot*	\$73.70	\$90.03	\$77.02	\$94.30

*Includes all costs incurred for drilling and equipping wells through the "Christmas tree"

NOTE: Totals may not agree with the sum of the individual items because of independent rounding.

DESCRIPTION OF SURVEY. The 1981 Joint Association Surveys (JAS) contains information on drilling costs derived from a sample of wells, footage, and costs collected from operators of different sizes who drilled wells in various areas of the United States. The drilling costs reported are those incurred for drilling and equipping wells through the "Christmas tree."

Estimates of drilling costs were derived by combining sample data with the 1981 drilling statistics as compiled by the American Petroleum Institute (API) and the Committee on Statistics of Drilling of the American Association of Petroleum Geologists (AAPG-CSD). The procedures for preparing these estimates for the 1981 JAS are described in the following sections.

DEFINITIONS. Copies of the 1981 questionnaire, instructions, definitions and maps showing geographic subdivisions may be found in Appendices, A, B, and G.

The 1981 UNIVERSE. In 1981 the API and the AAPG-CSD reported a total of 78,538 oil and gas wells and dry holes.* It was necessary to adjust the data reported in the *API Quarterly Review of Drilling Statistics (QRDS)* as follows:

1. *Adjustments Type I (Net).* Adjustments of this type represent:
 - a. The elimination of old wells drilled deeper (and corresponding footage).
 - b. The elimination of wells completed in 1980 (and corresponding footage), but reported in the QRDS in 1981.
 - c. The elimination of sidetracked (bypassed) and redrill footage.
 - d. The inclusion of wells completed in 1981, but not reported in the QRDS until 1982.
2. *Adjustments Type II (Net).* Total adjustments of this type represent:
 - a. The elimination of wells previously reported in the 1980 JAS.
 - b. The inclusion of wells not reported in the QRDS but reported and confirmed by JAS respondents as actually drilled in 1981.

The adjustment of published data as outlined above resulted in a total of 80,816 oil and gas wells and dry holes (representing 388,800,097 feet) which constituted the drilling universe used for estimating total expenditures for 1981. (See Appendix C.)

*See *API QUARTERLY REVIEW OF DRILLING STATISTICS*. Vol. XV, No. 4, March 1982, pp. 14-19.

THE 1981 SAMPLE. As in previous years, questionnaires were mailed to operators which were recorded as having drilled wells in the different areas of the United States during 1981. Replies to the Survey were contingent upon voluntary responses, with a continued effort being made to increase the sample size, particularly with respect to the smaller operators. An analysis of the number of companies (operators), classified by the number of wells drilled, included in the sample for the years 1977-1981 is shown in Appendix F.

The number of oil wells, gas wells, and dry holes reported to the JAS in 1980 and 1981 as percentages of total wells drilled in each of the six selected states is as follows:

	Per Cent of Total					
	Oil Wells		Gas Wells		Dry Holes	
	1980	1981	1980	1981	1980	1981
California	86	84	56	61	50	50
Kansas	31	30	48	41	34	35
Louisiana	49	44	54	50	50	49
New Mexico	62	50	78	72	47	47
Oklahoma	21	24	30	35	26	29
Texas	39	39	50	49	31	31

The following tabulation shows the total number of wells and footage reported to the JAS in 1980 and 1981 as compared to the wells and footage which comprised the JAS drilling universe for these two years.

	1980 Survey			1981 Survey		
	Total	Sample	Per Cent of Total	Total	Sample	Per Cent of Total
Oil Wells	28,553	11,246	39.4	38,725	14,840	38.3
Footage (thousands)	117,066	54,200	46.3	161,982	72,699	44.9
Total Cost (millions)	\$7,768	\$4,365	56.2	\$13,023	\$6,916	53.1
Gas Wells	15,225	6,640	43.6	17,533	7,294	41.6
Footage (thousands)	85,820	45,312	52.8	100,258	52,233	52.1
Total Cost (millions)	\$8,167	\$5,303	64.9	\$12,248	\$8,159	66.6
Dry Holes	18,233	6,268	34.4	24,558	8,310	33.8
Footage (thousands)	93,145	42,034	45.1	126,561	54,465	43.0
Total Cost (millions)	\$6,865	\$4,265	62.1	\$11,395	\$6,847	60.1
Total Wells	62,011	24,154	39.0	80,816	30,444	37.7
Footage (thousands)	296,031	141,546	48.0	388,800	179,397	46.1
Total Cost (millions)	\$22,800	\$13,933	61.1	\$36,665	\$21,922	59.8

NOTE: Totals may not agree with the sum of the individual items because of independent rounding.

DETERMINATION OF UNREPORTED WELLS AND FOOTAGE. Individual wells (and footage) derived by adjustment of QRDS data were classified according to type of well (oil, gas or dry), location, and depth. Individual wells reported to the JAS were classified in like manner. The wells and footage reported to the JAS in each category were subtracted from the number of wells and footage in corresponding categories for the adjusted universe. The difference represented the unreported wells and footage by type of well, location, and depth interval.

ESTIMATION OF TOTAL COSTS. The average cost per foot drilled in each category was computed on the basis of information reported to the JAS. Based on the sample wells reported for each area, least squares regression analysis was used to determine the functional relationship between the cost per foot and well depth for each type of well. (See Appendix H for a description of the methodology.)

The cost per foot for the unreported wells in each category was then estimated from the least squares analysis for each area. For the relatively few unreported wells falling outside the depth range of the sample, for which regression analysis did not provide meaningful estimates, cost estimates were based on an analysis of costs in similar areas and of prior years' data. This was necessary for approximately 5.1 percent of all unreported wells.

The cost per foot for the unreported wells was then multiplied by the unreported footage in each depth range to obtain the unreported cost for each category. Total estimated expenditures were obtained by adding the reported costs to estimated unreported costs.

FINDINGS FOR 1981. Cost data are shown in Tables 1-53 for the Total United States, Total Onshore United States, and Total Offshore United States as well as for Offshore Federal Waters and Gulf of Mexico—Northern.

Those wells drilled in the Atlantic Coast Federal Waters are not shown separately to avoid disclosure of proprietary data, but are included in Table 52, "Offshore Federal Waters" on page 58. However, total wells, footage, and costs for this area are shown in Table 1.

In addition, expenditures are reported for the individual states and for the subdivisions of Alaska, California, Louisiana, New Mexico, and Texas.

SUMMARY OF SAMPLE DATA FOR 1981. Additional information concerning the cost of exploratory, development single completion, and multiple completion wells as reported to the Joint Association Survey is summarized for the United States in Appendices D and E.

Sample data in these four categories, summarized by depth intervals for individual states, may be purchased from the American Petroleum Institute on magnetic tape or in the form of a computer listing. Data in either format are summarized to the extent necessary to avoid disclosure of individual well costs.

Requests for price quotations should be directed to the Statistics Department, Office of the Director, American Petroleum Institute, 2101 L Street, Northwest, Washington, D.C. 20037. (Note: Orders will be accepted only for the complete summary.)

TABLES CONTAINING FINDINGS

Please note that the average depth and cost per well have not been rounded upward on the following tables.

Table 1

**TOTAL NUMBER OF WELLS, FOOTAGE
FOR OIL AND GAS WELLS, AND**

STATE	OIL WELLS			GAS WELLS		
	WELLS DRILLED	TOTAL FOOTAGE	COST	WELLS DRILLED	TOTAL FOOTAGE	COST
ALABAMA	42	202,609	23,831,709	41	208,403	26,145,972
ALASKA - ONSHORE	134	1,386,336	427,381,437	7	67,673	55,343,195
ALASKA - OFFSHORE	--	--	--	--	--	--
ALASKA - TOTAL	134	1,386,336	427,381,437	7	67,673	55,343,195
ARKANSAS	357	1,477,316	68,974,946	153	867,592	78,000,882
CALIFORNIA - NORTH	6	25,467	2,147,704	36	596,600	55,698,242
CALIFORNIA - CENTRAL COASTAL	284	1,029,536	115,848,842	3	20,393	2,817,081
CALIFORNIA - EAST CENTRAL	2,289	4,420,639	437,831,206	12	55,807	4,478,606
CALIFORNIA - SOUTH	200	697,260	99,233,193	--	--	--
CALIFORNIA - OFFSHORE	147	786,359	193,388,321	1	18,000	9,813,024
CALIFORNIA - TOTAL	2,926	6,959,311	848,449,266	102	691,300	72,806,953
COLORADO	536	3,408,373	222,961,349	587	3,454,362	267,538,296
FLORIDA	8	113,339	24,367,000	--	--	--
ILLINOIS	1,759	4,793,072	207,932,823	13	18,262	549,278
INDIANA	354	694,800	26,236,297	33	37,461	2,035,961
KANSAS	3,287	10,651,710	403,418,061	677	2,430,342	104,710,690
KENTUCKY	607	1,088,366	43,953,562	169	467,477	26,658,724
LOUISIANA - NORTH	1,114	2,977,609	156,989,382	1,200	4,367,933	323,457,025
LOUISIANA - SOUTH	281	2,523,864	322,756,337	293	3,806,386	1,033,119,528
LOUISIANA - OFFSHORE	235	2,369,235	769,402,990	349	3,615,397	1,481,444,292
LOUISIANA - TOTAL	1,630	7,870,708	1,249,148,709	1,842	11,790,216	2,888,020,845
MICHIGAN	252	975,337	71,133,022	41	191,593	16,202,892
MISSISSIPPI	164	1,242,965	99,434,149	87	1,036,198	171,259,786
MONTANA	442	3,055,802	343,459,930	193	393,969	24,244,609
NEBRASKA	242	1,110,279	47,254,352	10	32,019	1,044,613
NEW MEXICO - EAST	573	2,813,142	254,257,338	431	3,448,858	439,048,598
NEW MEXICO - WEST	206	1,069,090	87,721,726	824	4,638,615	296,530,748
NEW MEXICO - TOTAL	779	3,882,232	341,979,564	1,255	8,087,473	735,579,346
NORTH DAKOTA	440	4,219,134	544,814,564	20	251,269	46,373,713
OKLAHOMA	6,446	29,092,752	2,225,823,585	2,286	14,704,939	2,014,667,479
TEXAS RRC DIST. 1	1,870	6,517,699	454,125,267	106	595,741	68,201,734
TEXAS RRC DIST. 2	136	780,799	50,613,489	327	2,241,963	264,880,530
TEXAS RRC DIST. 3	1,520	12,248,596	1,203,890,894	489	4,739,795	694,111,202
TEXAS RRC DIST. 4	184	1,013,511	78,324,961	665	5,485,201	803,339,295
TEXAS RRC DIST. 5	288	931,472	82,976,341	152	1,711,208	282,287,828
TEXAS RRC DIST. 6	347	1,963,047	139,965,696	433	4,202,589	501,340,934
TEXAS RRC DIST. 7B	1,924	6,319,496	306,059,043	633	2,353,459	121,596,547
TEXAS RRC DIST. 7C	1,089	5,875,386	385,191,603	424	2,847,735	177,030,814
TEXAS RRC DIST. 8	2,009	11,365,436	828,977,093	131	1,264,729	282,449,847
TEXAS RRC DIST. 8A	1,536	5,289,991	534,207,658	16	90,154	8,815,525
TEXAS RRC DIST. 9	2,083	6,395,072	318,682,625	267	1,540,451	101,634,589
TEXAS RRC DIST. 10	702	3,194,400	229,032,317	284	2,374,074	241,646,435
TEXAS - OFFSHORE	26	235,842	76,154,901	159	1,456,250	592,776,595
TEXAS - TOTAL	13,714	65,130,747	4,688,202,388	4,086	30,903,348	4,140,111,825
UTAH	200	1,426,425	224,110,718	149	991,360	134,769,060
WYOMING	881	5,349,906	571,211,048	223	2,315,539	562,502,762
APPALACHIAN*	3,087	7,314,313	255,175,030	5,395	20,900,644	825,418,014
OFFSHORE FED. - ALASKA	--	--	--	--	--	--
OFFSHORE FED. - ATLANTIC	--	--	--	--	--	--
OFFSHORE FED. - GULF NORTH	7	75,832	35,382,581	6	77,805	38,135,858
OFFSHORE FED. - TOTAL	7	75,832	35,382,581	6	77,805	38,135,858
OTHER UNITED STATES**	231	480,337	28,163,123	153	335,270	16,013,897
TOTAL OFFSHORE	415	3,467,268	1,074,320,793	515	5,167,952	2,122,169,769
TOTAL ONSHORE	38,310	158,514,798	11,948,475,460	17,018	95,089,567	10,125,963,881
TOTAL U.S. 1981	38,725	161,982,066	13,022,804,253	17,533	100,257,519	12,248,133,650
EXPLORATORY WELLS	2,519	15,372,482	1,673,933,696	2,426	17,659,089	3,219,390,407
DEVELOPMENT WELLS	36,206	146,609,584	11,348,865,557	15,107	82,598,430	9,028,743,243

* Includes New York, Ohio, Pennsylvania and West Virginia.

** Includes Arizona, Georgia, Idaho, Missouri, Nevada, Oregon, South Dakota, Tennessee and Virginia.

**DRILLED AND ESTIMATED DRILLING COSTS
DRY HOLES, BY STATE—1981**

7
Table 1

Dry Holes

Total Wells

WELLS DRILLED	TOTAL FOOTAGE	COST	WELLS DRILLED	TOTAL FOOTAGE	COST	STATE
134	851,360	108,577,088	217	1,260,372	158,554,769	ALABAMA
15	149,266	190,036,840	156	1,603,280	672,761,522	ALASKA - ONSHORE
--	--	--	--	--	--	ALASKA - OFFSHORE
15	149,266	190,036,840	156	1,603,280	672,761,522	ALASKA - TOTAL
378	1,983,409	90,023,114	888	4,328,317	236,998,942	ARKANSAS
167	1,055,364	63,904,128	259	1,677,431	121,750,074	CALIFORNIA - NORTH
52	258,571	44,744,393	339	1,309,050	163,410,316	CALIFORNIA - CENTRAL COASTAL
138	886,713	88,322,329	2,439	5,363,159	530,632,141	CALIFORNIA - EAST CENTRAL
14	80,351	16,964,848	214	777,611	116,198,041	CALIFORNIA - SOUTH
18	155,580	112,639,006	166	959,939	315,840,351	CALIFORNIA - OFFSHORE
389	2,436,579	326,574,704	3,417	10,087,190	1,247,830,923	CALIFORNIA - TOTAL
755	3,817,202	185,581,396	1,878	10,679,942	676,081,041	COLORADO
17	202,301	31,643,596	25	315,640	56,010,596	FLORIDA
1,283	3,722,966	76,417,949	3,055	8,524,300	234,900,050	ILLINOIS
416	801,291	19,752,788	803	1,533,552	48,025,036	INDIANA
3,467	13,224,706	313,624,372	7,431	26,306,758	321,753,123	KANSAS
964	1,380,426	35,603,265	1,940	2,936,269	106,215,551	KENTUCKY
958	4,461,340	188,169,466	3,272	11,806,882	668,615,373	LOUISIANA - NORTH
839	9,765,784	1,521,792,620	1,413	16,096,034	2,927,668,485	LOUISIANA - SOUTH
350	3,711,522	1,285,540,273	934	9,696,654	3,536,387,555	LOUISIANA - OFFSHORE
2,147	17,938,646	2,995,502,359	5,619	37,599,570	7,132,671,913	LOUISIANA - TOTAL
425	2,001,143	136,931,413	718	3,168,073	224,267,327	MICHIGAN
530	4,652,295	422,817,628	791	6,931,458	693,511,563	MISSISSIPPI
578	2,946,803	261,958,142	1,218	6,401,574	629,662,681	MONTANA
339	1,730,995	32,777,917	591	2,873,293	81,076,982	NEBRASKA
264	1,510,337	143,332,816	1,268	7,772,337	836,639,252	NEW MEXICO - EAST
98	295,737	23,439,147	1,128	5,993,442	407,691,621	NEW MEXICO - WEST
362	1,796,074	166,771,963	2,396	13,765,779	1,244,330,873	NEW MEXICO - TOTAL
408	3,750,833	385,241,025	868	8,221,236	976,429,302	NORTH DAKOTA
2,907	14,121,479	1,003,387,708	11,639	57,909,170	5,243,878,772	OKLAHOMA
444	1,889,628	120,541,722	2,420	9,003,068	642,868,773	TEXAS RRC DIST. 1
414	2,861,577	217,334,611	877	5,884,339	532,828,630	TEXAS RRC DIST. 2
692	5,626,159	523,265,727	2,701	22,614,550	2,421,267,823	TEXAS RRC DIST. 3
522	3,782,174	375,528,341	1,371	10,280,886	1,257,192,597	TEXAS RRC DIST. 4
194	1,177,702	110,482,755	634	3,820,382	475,746,924	TEXAS RRC DIST. 5
222	1,625,342	159,501,312	1,002	7,790,978	800,807,842	TEXAS RRC DIST. 6
1,869	6,351,580	196,217,006	4,426	15,024,534	623,872,596	TEXAS RRC DIST. 7B
524	2,615,753	129,705,801	2,037	11,338,874	691,928,218	TEXAS RRC DIST. 7C
284	1,933,931	217,529,009	2,424	14,564,096	1,328,955,949	TEXAS RRC DIST. 8
479	3,478,022	220,438,601	2,031	11,858,167	763,461,784	TEXAS RRC DIST. 8A
1,399	4,896,844	147,461,860	3,749	12,832,367	567,779,074	TEXAS RRC DIST. 9
152	1,182,169	106,022,979	1,138	6,750,643	576,702,231	TEXAS RRC DIST. 10
144	1,515,498	658,620,925	329	3,207,590	1,327,552,421	TEXAS - OFFSHORE
7,339	38,936,379	3,182,650,649	25,139	134,970,474	12,010,964,862	TEXAS - TOTAL
181	1,201,318	306,643,938	530	3,619,163	665,522,766	UTAH
336	6,307,823	658,774,034	1,940	13,973,268	1,792,487,844	WYOMING
450	1,516,806	52,426,053	9,932	29,731,763	1,133,019,097	APPALACHIAN *
--	--	--	--	--	--	OFFSHORE FED. - ALASKA
5	72,438	68,876,312	5	72,438	68,876,312	OFFSHORE FED. - ATLANTIC
29	332,212	228,576,999	42	485,349	302,095,428	OFFSHORE FED. - GULF NORTH
34	404,650	297,453,301	47	558,287	370,971,740	OFFSHORE FED. - TOTAL
204	685,762	113,347,305	538	1,501,369	157,529,325	OTHER UNITED STATES **
546	5,787,250	2,354,253,505	1,476	14,422,470	5,550,752,067	TOTAL OFFSHORE
24,012	120,773,262	9,040,265,092	79,340	374,377,627	31,114,704,433	TOTAL ONSHORE
24,558	126,560,512	11,394,518,597	80,816	389,800,097	36,665,456,500	TOTAL U.S. 1981
11,582	68,031,137	7,291,459,962	16,527	101,112,708	12,194,738,065	EXPLORATORY WELLS
12,976	58,479,375	4,103,059,635	64,289	287,687,389	24,480,668,435	DEVELOPMENT WELLS

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

8

TOTAL U.S. *

Table 2

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	6,140	718	2,136	8,994				
FOOTAGE 0 - 1,249	5,119,871	636,647	1,580,144	7,336,662	834	887	740	816
COSTS \$	239,443,913	32,872,535	66,546,186	338,862,634	38,997	45,783	31,155	37,677
WELLS	7,200	2,545	3,357	13,102				
FOOTAGE 1,250 - 2,499	12,929,814	5,095,270	6,273,437	24,298,521	1,796	2,002	1,869	1,855
COSTS \$	619,693,348	203,639,574	197,406,725	1,020,739,647	86,069	80,016	58,805	77,907
WELLS	7,910	2,877	4,780	15,567				
FOOTAGE 2,500 - 3,749	24,917,143	9,245,065	15,237,983	49,400,191	3,150	3,213	3,188	3,173
COSTS \$	1,226,234,942	432,355,590	469,692,786	2,128,283,318	155,023	150,280	98,262	136,718
WELLS	5,316	3,466	4,426	13,208				
FOOTAGE 3,750 - 4,999	23,270,325	14,821,586	19,347,811	57,439,722	4,377	4,276	4,371	4,349
COSTS \$	1,277,897,979	712,651,873	665,769,648	2,656,319,500	240,387	205,612	150,422	201,114
WELLS	5,659	3,335	4,678	13,672				
FOOTAGE 5,000 - 7,499	34,519,990	20,156,732	28,434,026	83,110,748	6,100	6,044	6,078	6,079
COSTS \$	2,441,899,994	1,388,023,813	1,419,804,187	5,249,727,994	431,507	416,199	303,507	383,977
WELLS	4,860	2,090	2,528	9,478				
FOOTAGE 7,500 - 9,999	41,996,011	18,001,038	21,724,817	81,721,866	8,641	8,613	8,594	8,622
COSTS \$	3,986,076,536	1,972,589,243	1,875,266,411	7,833,932,190	820,180	943,823	741,798	826,539
WELLS	1,204	1,351	1,460	4,015				
FOOTAGE 10,000 - 12,499	13,186,872	14,915,938	16,200,238	44,303,048	10,953	11,041	11,096	11,034
COSTS \$	1,918,725,240	2,436,848,791	2,236,372,254	6,591,946,285	1,593,626	1,803,737	1,531,762	1,641,830
WELLS	364	666	740	1,770				
FOOTAGE 12,500 - 14,999	4,859,858	9,021,811	10,018,673	23,900,342	13,351	13,546	13,539	13,503
COSTS \$	971,899,373	2,062,455,987	1,925,600,958	4,959,956,318	2,670,053	3,096,781	2,602,164	2,802,235
WELLS	60	326	319	705				
FOOTAGE 15,000 - 17,499	958,565	5,268,753	5,114,815	11,342,133	15,976	16,162	16,034	16,088
COSTS \$	259,691,026	1,655,741,047	1,332,664,161	3,248,096,234	4,328,194	5,078,961	4,177,631	4,607,229
WELLS	11	116	91	218				
FOOTAGE 17,500 - 19,999	202,369	2,153,802	1,687,539	4,043,710	18,397	18,567	18,544	18,549
COSTS \$	70,439,470	933,372,298	663,383,590	1,667,195,358	6,403,588	8,046,313	7,289,930	7,647,685
WELLS	1	43	43	87				
FOOTAGE 20,000 & OVER	21,248	940,877	941,029	1,903,154	21,248	21,881	21,884	21,875
COSTS \$	10,802,432	417,582,899	542,011,691	970,397,022	10,802,432	9,711,230	12,604,923	11,153,989
TOTAL WELLS	38,725	17,533	24,558	80,816				
TOTAL FOOTAGE	161,982,066	100,257,519	126,560,512	388,800,097	4,183	5,718	5,154	4,811
TOTAL COSTS \$	13,022,804,253	12,248,133,650	11,394,518,597	36,665,456,500	336,289	698,576	463,984	453,691

* Includes the following states and areas which are not shown separately: Arizona, Georgia, Idaho, Missouri, Nevada, Oregon, South Dakota, Tennessee, Virginia, and Offshore Waters-Atlantic Coast.

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

TOTAL OFFSHORE *

Table 3

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	2	--	6	8				
FOOTAGE	1,912	--	5,471	7,383	956	--	912	923
COSTS \$	394,635	--	3,847,475	4,242,110	197,318	--	641,246	530,264
WELLS	5	3	4	12				
FOOTAGE	10,636	3,831	7,282	21,749	2,127	1,277	1,821	1,812
COSTS \$	1,546,980	2,688,233	5,122,739	9,357,952	309,396	896,078	1,280,685	779,829
WELLS	33	4	5	42				
FOOTAGE	109,358	13,273	16,297	138,928	3,314	3,318	3,259	3,308
COSTS \$	15,162,959	5,556,473	7,031,863	27,751,295	459,484	1,389,118	1,406,373	660,745
WELLS	46	19	16	81				
FOOTAGE	202,169	84,921	72,407	359,497	4,395	4,470	4,525	4,438
COSTS \$	34,974,053	40,326,954	20,776,828	96,077,835	760,306	2,122,471	1,298,552	1,186,146
WELLS	81	100	56	237				
FOOTAGE	504,607	653,021	365,853	1,523,481	6,230	6,530	6,533	6,428
COSTS \$	130,252,451	227,753,199	103,061,577	461,067,227	1,608,055	2,277,532	1,840,385	1,945,431
WELLS	121	136	150	407				
FOOTAGE	1,064,070	1,189,807	1,317,429	3,571,306	8,794	8,749	8,783	8,775
COSTS \$	328,551,168	434,564,923	420,508,796	1,183,624,887	2,715,299	3,195,330	2,803,392	2,908,169
WELLS	72	137	153	362				
FOOTAGE	800,158	1,516,991	1,700,453	4,017,602	11,113	11,073	11,114	11,098
COSTS \$	291,943,376	542,741,964	622,888,316	1,457,573,656	4,054,769	3,961,620	4,071,166	4,026,447
WELLS	47	74	104	225				
FOOTAGE	644,416	1,003,838	1,416,659	3,064,913	13,711	13,565	13,622	13,622
COSTS \$	220,209,916	443,577,803	656,234,156	1,320,021,875	4,685,318	5,994,295	6,309,944	5,866,764
WELLS	7	31	35	73				
FOOTAGE	111,863	497,013	559,918	1,168,794	15,980	16,033	15,998	16,011
COSTS \$	42,269,497	295,279,861	291,390,353	628,939,711	6,038,500	9,525,157	8,325,439	8,615,612
WELLS	1	8	12	21				
FOOTAGE	18,079	143,404	220,251	381,734	18,079	17,926	18,354	18,178
COSTS \$	9,023,758	79,159,345	175,059,529	263,242,632	9,023,758	9,894,918	14,588,294	12,535,363
WELLS	--	3	5	8				
FOOTAGE	--	61,853	105,230	167,083	--	20,618	21,046	20,885
COSTS \$	--	50,521,014	48,331,873	98,852,887	--	16,840,339	9,666,375	12,356,611
TOTAL WELLS	415	515	546	1,476				
TOTAL FOOTAGE	3,467,268	5,167,952	5,787,250	14,422,470	8,355	10,035	10,599	9,771
TOTAL COSTS \$	1,074,328,793	2,122,169,769	2,354,253,505	5,550,752,067	2,588,744	4,120,718	4,311,820	3,760,672

* Includes Offshore Federal Waters-Atlantic Coast which is not shown separately.

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 4

TOTAL ONSHORE *

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	6,138	718	2,130	8,986				
FOOTAGE	5,117,959	636,647	1,574,673	7,329,279	834	887	739	816
COSTS \$	239,049,278	32,872,535	62,698,711	334,620,524	38,946	45,783	29,436	37,238
WELLS	7,195	2,542	3,353	13,090				
FOOTAGE	12,919,178	5,091,439	6,266,155	24,276,772	1,796	2,003	1,869	1,855
COSTS \$	618,146,368	200,951,341	192,283,986	1,011,381,695	85,913	79,052	57,347	77,264
WELLS	7,877	2,873	4,775	15,525				
FOOTAGE	24,807,785	9,231,792	15,221,686	49,261,263	3,149	3,213	3,188	3,173
COSTS \$	1,211,071,983	426,799,117	462,660,923	2,100,532,023	153,748	148,555	96,892	135,300
WELLS	5,270	3,447	4,410	13,127				
FOOTAGE	23,068,156	14,736,665	19,275,404	57,080,225	4,377	4,275	4,371	4,348
COSTS \$	1,242,923,926	672,324,919	644,992,820	2,560,241,665	235,849	195,046	146,257	195,036
WELLS	5,578	3,235	4,622	13,435				
FOOTAGE	34,015,383	19,503,711	28,063,173	81,587,267	6,098	6,029	6,073	6,073
COSTS \$	2,311,647,543	1,160,270,614	1,316,742,610	4,788,660,767	414,422	358,662	284,886	356,432
WELLS	4,739	1,954	2,378	9,071				
FOOTAGE	40,931,941	16,311,231	20,407,388	78,150,560	8,637	8,603	8,582	8,615
COSTS \$	3,657,525,368	1,538,024,320	1,454,757,615	6,650,307,303	771,793	787,116	611,757	733,139
WELLS	1,132	1,214	1,307	3,653				
FOOTAGE	12,386,714	13,398,947	14,499,785	40,285,446	10,942	11,037	11,094	11,028
COSTS \$	1,626,781,864	1,894,106,827	1,613,483,938	5,134,372,629	1,437,087	1,560,220	1,234,494	1,405,522
WELLS	317	592	636	1,545				
FOOTAGE	4,215,442	8,017,973	8,602,014	20,835,429	13,298	13,544	13,525	13,486
COSTS \$	751,689,457	1,618,878,184	1,269,366,802	3,639,934,443	2,371,260	2,734,592	1,995,860	2,355,945
WELLS	53	295	284	632				
FOOTAGE	846,702	4,771,740	4,554,897	10,173,339	15,976	16,175	16,038	16,097
COSTS \$	217,421,529	1,360,461,186	1,041,273,808	2,619,156,523	4,102,293	4,611,733	3,666,457	4,144,235
WELLS	10	108	79	197				
FOOTAGE	184,290	2,010,398	1,467,288	3,661,976	18,429	18,615	18,573	18,589
COSTS \$	61,415,712	854,212,953	488,324,061	1,403,952,726	6,141,571	7,909,379	6,181,317	7,126,664
WELLS	1	40	38	79				
FOOTAGE	21,248	879,024	835,799	1,736,071	21,248	21,976	21,995	21,976
COSTS \$	10,802,432	367,061,885	493,679,818	871,544,135	10,802,432	9,176,547	12,991,574	11,032,204
TOTAL WELLS	38,310	17,018	24,012	79,340				
TOTAL FOOTAGE	158,514,798	95,089,567	120,773,262	374,377,627	4,138	5,588	5,030	4,719
TOTAL COSTS \$	11,948,475,460	10,125,963,881	9,040,265,092	31,114,704,433	311,889	595,015	376,489	392,169

* Includes the following states and areas which are not shown separately: Arizona, Georgia, Idaho, Missouri, Nevada, Oregon, South Dakota, Tennessee, and Virginia. Note: Includes Alaska-Onshore.

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 5

ALABAMA

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	--	3	3				
FOOTAGE	--	--	3,185	3,185	--	--	1,062	1,062
COSTS \$	--	--	501,348	501,348	--	--	167,116	167,116
WELLS	16	6	27	49				
FOOTAGE	37,784	12,263	57,483	107,530	2,362	2,044	2,129	2,194
COSTS \$	3,961,278	1,333,553	4,768,717	10,063,548	247,580	222,259	176,619	205,379
WELLS	9	17	37	63				
FOOTAGE	27,705	50,532	110,395	188,632	3,078	2,972	2,984	2,994
COSTS \$	1,710,575	4,251,610	7,160,721	13,122,906	190,064	250,095	193,533	208,300
WELLS	8	12	19	39				
FOOTAGE	31,879	54,374	84,488	170,741	3,985	4,531	4,447	4,378
COSTS \$	2,287,266	3,818,806	6,866,592	12,972,664	285,908	318,234	361,400	332,632
WELLS	3	1	10	14				
FOOTAGE	16,839	5,002	58,293	80,134	5,613	5,002	5,829	5,724
COSTS \$	710,125	336,107	7,554,219	8,600,451	236,708	336,107	755,422	614,318
WELLS	--	--	2	2				
FOOTAGE	--	--	16,726	16,726	--	--	8,363	8,363
COSTS \$	--	--	1,126,524	1,126,524	--	--	563,262	563,262
WELLS	1	1	5	7				
FOOTAGE	11,240	11,680	57,737	80,657	11,240	11,680	11,547	11,522
COSTS \$	1,249,401	1,182,182	8,336,537	10,768,120	1,249,401	1,182,182	1,667,307	1,538,303
WELLS	1	--	16	17				
FOOTAGE	12,617	--	216,589	229,206	12,617	--	13,537	13,483
COSTS \$	1,492,084	--	25,891,829	27,383,913	1,492,084	--	1,618,239	1,610,818
WELLS	4	1	12	17				
FOOTAGE	64,545	16,899	190,552	271,996	16,136	16,899	15,879	16,000
COSTS \$	12,420,980	2,934,823	34,115,859	49,471,662	3,105,245	2,934,823	2,842,988	2,910,098
WELLS	--	3	3	6				
FOOTAGE	--	55,653	55,912	111,565	--	18,551	18,637	18,594
COSTS \$	--	12,288,891	12,254,742	24,543,633	--	4,096,297	4,084,914	4,090,606
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	42	41	134	217				
TOTAL FOOTAGE	202,609	206,403	851,360	1,260,372	4,824	5,034	6,353	5,808
TOTAL COSTS \$	23,831,709	26,145,972	108,577,088	158,554,769	567,422	637,707	810,277	730,667

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 6

ALASKA - TOTAL

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
0 - 1,249	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
1,250 - 2,499	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
2,500 - 3,749	--	--	--	--	--	--	--	--
WELLS	--	1	1	2	--	4,360	4,015	4,188
FOOTAGE	--	4,360	4,015	8,375	--	4,360	4,015	4,188
COSTS \$	--	4,308,803	4,161,251	8,470,054	--	4,308,803	4,161,251	4,235,027
WELLS	2	1	4	7	7,283	6,820	6,805	6,944
FOOTAGE	14,565	6,820	27,220	48,605	3,464,200	3,907,284	4,127,500	3,906,526
COSTS \$	6,928,400	3,907,284	16,509,998	27,345,682	3,464,200	3,907,284	4,127,500	3,906,526
WELLS	45	--	2	47	9,014	--	8,830	9,006
FOOTAGE	405,629	--	17,660	423,289	3,173,476	--	7,470,369	3,356,323
COSTS \$	142,806,421	--	14,940,737	157,747,158	3,173,476	--	7,470,369	3,356,323
WELLS	81	4	5	90	10,973	10,814	11,301	10,984
FOOTAGE	888,818	43,257	56,505	988,580	3,066,868	1,996,196	18,189,003	3,859,401
COSTS \$	248,416,272	7,934,784	90,945,008	347,346,064	3,066,868	1,996,196	18,189,003	3,859,401
WELLS	6	1	2	9	12,887	13,241	13,419	13,045
FOOTAGE	77,324	13,241	26,837	117,402	4,871,733	39,142,324	18,604,401	11,731,280
COSTS \$	29,230,394	39,142,324	37,208,800	105,581,518	4,871,733	39,142,324	18,604,401	11,731,280
WELLS	--	--	1	1	--	--	17,029	17,029
FOOTAGE	--	--	17,029	17,029	--	--	26,271,046	26,271,046
COSTS \$	--	--	26,271,046	26,271,046	--	--	26,271,046	26,271,046
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
17,500 - 19,999	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
20,000 & OVER	--	--	--	--	--	--	--	--
TOTAL WELLS	134	7	15	156	10,346	9,668	9,951	10,277
TOTAL FOOTAGE	1,386,336	67,678	149,266	1,603,280	3,189,414	7,906,171	12,669,123	4,312,574
TOTAL COSTS \$	427,381,487	55,343,195	190,036,840	672,761,522	3,189,414	7,906,171	12,669,123	4,312,574

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 7

ALASKA - ONSHORE

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
0 - 1,249	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
1,250 - 2,499	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
2,500 - 3,749	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
3,750 - 4,999	--	1	1	2	--	4,360	4,015	4,188
FOOTAGE	--	4,360	4,015	8,375	--	4,360	4,015	4,188
COSTS \$	--	4,308,803	4,161,251	8,470,054	--	4,308,803	4,161,251	4,235,027
5,000 - 7,499	2	1	4	7	7,283	6,820	6,805	6,944
FOOTAGE	14,565	6,820	27,220	48,605	3,464,200	3,907,284	4,127,500	3,906,526
COSTS \$	6,928,400	3,907,284	16,509,998	27,345,682	3,464,200	3,907,284	4,127,500	3,906,526
7,500 - 9,999	45	--	2	47	9,014	--	8,830	9,006
FOOTAGE	405,629	--	17,660	423,289	3,173,476	--	7,470,369	3,356,323
COSTS \$	142,806,421	--	14,940,737	157,747,158	3,173,476	--	7,470,369	3,356,323
10,000 - 12,499	81	4	5	90	10,973	10,814	11,301	10,984
FOOTAGE	888,818	43,257	56,505	988,580	3,066,868	1,996,196	18,189,003	3,859,401
COSTS \$	248,416,272	7,984,784	90,945,008	347,346,064	3,066,868	1,996,196	18,189,003	3,859,401
12,500 - 14,999	6	1	2	9	12,887	13,241	13,419	13,045
FOOTAGE	77,324	13,241	26,837	117,402	4,871,733	39,142,324	18,604,401	11,731,280
COSTS \$	29,230,394	39,142,324	37,208,800	105,581,518	4,871,733	39,142,324	18,604,401	11,731,280
15,000 - 17,499	--	--	1	1	--	--	17,029	17,029
FOOTAGE	--	--	17,029	17,029	--	--	26,271,046	26,271,046
COSTS \$	--	--	26,271,046	26,271,046	--	--	26,271,046	26,271,046
17,500 - 19,999	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
20,000 & OVER	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	134	7	15	156	10,346	9,668	9,951	10,277
TOTAL FOOTAGE	1,386,336	67,678	149,266	1,603,280	3,189,414	7,906,171	12,669,123	4,312,574
TOTAL COSTS \$	427,381,487	55,343,195	190,036,840	672,761,522	3,189,414	7,906,171	12,669,123	4,312,574

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 8

ALASKA - OFFSHORE

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS FOOTAGE COSTS \$								
0 - 1,249	--	--	--	--	--	--	--	--
1,250 - 2,499	--	--	--	--	--	--	--	--
2,500 - 3,749	--	--	--	--	--	--	--	--
3,750 - 4,999	--	--	--	--	--	--	--	--
5,000 - 7,499	--	--	--	--	--	--	--	--
7,500 - 9,999	NO ALASKA OFFSHORE WELLS WERE REPORTED AS COMPLETED DURING 1981				--	--	--	--
10,000 - 12,499	--	--	--	--	--	--	--	--
12,500 - 14,999	--	--	--	--	--	--	--	--
15,000 - 17,499	--	--	--	--	--	--	--	--
17,500 - 19,999	--	--	--	--	--	--	--	--
20,000 & OVER	--	--	--	--	--	--	--	--
TOTAL WELLS	--	--	--	--	--	--	--	--
TOTAL FOOTAGE	--	--	--	--	--	--	--	--
TOTAL COSTS \$	--	--	--	--	--	--	--	--

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

ARKANSAS

Table 9

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	9	15	24				
FOOTAGE	--	6,596	10,433	17,029	--	733	696	710
COSTS \$	--	626,620	446,066	1,072,686	--	69,624	29,738	44,695
WELLS	64	7	18	89				
FOOTAGE 1,250 - 2,499	144,423	15,080	39,650	199,153	2,257	2,154	2,203	2,238
COSTS \$	4,537,355	1,303,903	938,722	6,779,980	70,896	186,272	52,151	76,180
WELLS	158	16	104	278				
FOOTAGE 2,500 - 3,749	465,851	48,033	324,355	838,239	2,948	3,002	3,119	3,015
COSTS \$	15,480,563	3,946,751	9,666,164	29,093,478	97,978	246,672	92,944	104,653
WELLS	28	18	56	102				
FOOTAGE 3,750 - 4,999	117,662	79,610	240,871	438,143	4,202	4,423	4,301	4,296
COSTS \$	4,481,115	6,666,403	9,861,574	21,009,092	160,040	370,356	176,100	205,971
WELLS	67	71	105	243				
FOOTAGE 5,000 - 7,499	408,816	445,431	656,025	1,510,272	6,102	6,274	6,248	6,215
COSTS \$	21,391,027	41,104,816	28,169,734	90,665,577	319,269	578,941	268,283	373,109
WELLS	38	31	68	137				
FOOTAGE 7,500 - 9,999	318,784	262,290	568,425	1,149,499	8,389	8,461	8,359	8,391
COSTS \$	21,306,726	23,297,189	28,530,673	73,134,588	560,703	751,522	419,569	533,829
WELLS	2	1	9	12				
FOOTAGE 10,000 - 12,499	21,780	10,552	100,173	132,510	10,890	10,552	11,131	11,043
COSTS \$	1,778,160	1,055,200	7,318,499	10,151,859	889,080	1,055,200	813,167	845,988
WELLS	--	--	2	2				
FOOTAGE 12,500 - 14,999	--	--	28,383	28,383	--	--	14,192	14,192
COSTS \$	--	--	3,202,564	3,202,564	--	--	1,601,282	1,601,282
WELLS	--	--	1	1				
FOOTAGE 15,000 - 17,499	--	--	15,089	15,089	--	--	15,089	15,089
COSTS \$	--	--	1,889,118	1,889,118	--	--	1,889,118	1,889,118
WELLS	--	--	--	--				
FOOTAGE 17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE 20,000 & OVER	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	357	153	378	888				
TOTAL FOOTAGE	1,477,316	867,592	1,983,409	4,328,317	4,138	5,671	5,247	4,874
TOTAL COSTS \$	68,974,946	78,000,882	90,023,114	236,998,942	193,207	509,810	238,156	266,891

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 10

CALIFORNIA - TOTAL

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	1,071	--	20	1,091				
FOOTAGE	986,705	--	14,963	1,001,668	921	--	748	918
COSTS \$	80,430,617	--	1,490,083	81,920,700	75,099	--	74,504	75,088
WELLS	958	3	33	994				
FOOTAGE	1,571,499	6,560	65,342	1,643,401	1,640	2,187	1,980	1,653
COSTS \$	122,178,629	798,835	7,313,408	130,290,872	127,535	266,278	221,618	131,077
WELLS	370	14	47	431				
FOOTAGE	1,081,600	43,309	142,783	1,267,692	2,923	3,094	3,038	2,941
COSTS \$	113,321,621	4,076,516	9,612,020	127,010,157	306,275	291,180	204,511	294,687
WELLS	171	9	55	235				
FOOTAGE	734,398	39,052	239,992	1,013,442	4,295	4,339	4,363	4,313
COSTS \$	98,122,887	2,647,296	16,472,581	117,242,764	573,818	294,144	299,501	498,905
WELLS	225	37	105	367				
FOOTAGE	1,361,439	236,586	646,023	2,244,048	6,051	6,394	6,153	6,115
COSTS \$	182,755,477	16,602,276	45,946,747	245,304,500	812,247	448,710	437,588	668,405
WELLS	102	30	70	202				
FOOTAGE	884,877	257,471	602,372	1,744,720	8,675	8,582	8,605	8,637
COSTS \$	130,969,655	25,965,938	92,730,846	249,666,439	1,284,016	865,531	1,324,726	1,235,973
WELLS	23	6	38	67				
FOOTAGE	254,788	64,817	421,365	740,970	11,078	10,803	11,089	11,059
COSTS \$	87,828,812	8,438,525	69,459,836	165,727,173	3,818,644	1,406,421	1,827,890	2,473,540
WELLS	8	2	12	20				
FOOTAGE	84,005	25,505	160,761	270,271	14,001	12,753	13,397	13,514
COSTS \$	32,341,568	4,464,543	57,413,653	94,719,764	5,473,595	2,232,272	4,784,471	4,735,988
WELLS	--	--	7	7				
FOOTAGE	--	--	107,825	107,825	--	--	15,404	15,404
COSTS \$	--	--	17,928,470	17,928,470	--	--	2,561,210	2,561,210
WELLS	--	1	2	3				
FOOTAGE	--	18,000	35,153	53,153	--	18,000	17,577	17,718
COSTS \$	--	9,813,024	8,207,060	18,020,084	--	9,813,024	4,103,530	6,006,695
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	2,926	102	389	3,417				
TOTAL FOOTAGE	6,959,311	691,300	2,436,579	10,087,190	2,378	6,777	6,264	2,952
TOTAL COSTS \$	848,449,266	72,806,953	326,574,704	1,247,830,923	289,969	713,794	839,524	365,183

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

CALIFORNIA - NORTH

Table 11

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	--	1	1				
FOOTAGE	--	--	300	300	--	--	300	300
COSTS \$	--	--	41,947	41,947	--	--	41,947	41,947
WELLS	--	3	6	9				
FOOTAGE	--	6,560	11,892	18,452	--	2,187	1,982	2,050
COSTS \$	--	798,835	1,413,666	2,212,501	--	266,278	235,611	245,833
WELLS	1	10	16	27				
FOOTAGE	2,650	31,734	49,468	83,852	2,650	3,173	3,092	3,106
COSTS \$	158,576	2,897,664	3,041,079	6,097,319	158,576	289,766	190,067	225,827
WELLS	3	5	23	31				
FOOTAGE	11,507	21,530	103,235	136,272	3,836	4,306	4,488	4,396
COSTS \$	533,399	1,343,925	5,103,112	6,980,436	177,800	268,785	221,874	225,175
WELLS	2	32	76	110				
FOOTAGE	11,310	204,904	467,793	684,007	5,655	6,403	6,155	6,218
COSTS \$	1,455,729	14,007,712	23,138,060	38,601,501	727,865	437,741	304,448	350,923
WELLS	--	28	33	61				
FOOTAGE	--	241,550	288,122	529,672	--	8,627	8,731	8,683
COSTS \$	--	23,747,038	20,225,222	43,972,260	--	948,109	612,886	720,857
WELLS	--	6	12	18				
FOOTAGE	--	64,817	134,554	199,371	--	10,803	11,213	11,076
COSTS \$	--	8,438,525	10,941,042	19,379,567	--	1,406,421	911,754	1,076,643
WELLS	--	2	--	2				
FOOTAGE	--	25,505	--	25,505	--	12,753	--	12,753
COSTS \$	--	4,464,543	--	4,464,543	--	2,232,272	--	2,232,272
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	6	86	167	259				
TOTAL FOOTAGE	25,467	596,600	1,055,364	1,677,431	4,245	6,937	6,320	6,477
TOTAL COSTS \$	2,147,704	55,698,242	63,904,128	121,750,074	357,951	647,654	382,659	470,078

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 12

CALIFORNIA -CENTRAL COASTAL

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	--	4	4				
FOOTAGE	--	--	2,963	2,963	--	--	741	741
COSTS \$	--	--	538,851	538,851	--	--	134,713	134,713
WELLS	101	--	12	113				
FOOTAGE	223,042	--	24,113	247,155	2,208	--	2,009	2,187
COSTS \$	19,846,077	--	3,528,975	23,375,052	196,496	--	294,081	206,859
WELLS	101	--	6	107				
FOOTAGE	279,858	--	16,917	296,775	2,771	--	2,820	2,774
COSTS \$	23,254,451	--	2,679,629	25,934,080	230,242	--	446,605	242,375
WELLS	26	1	8	35				
FOOTAGE	117,672	4,972	34,855	157,499	4,526	4,972	4,357	4,500
COSTS \$	13,130,493	598,181	4,478,810	18,207,484	505,019	598,181	559,851	520,214
WELLS	34	--	9	43				
FOOTAGE	198,780	--	53,692	252,472	5,846	--	5,966	5,871
COSTS \$	24,535,945	--	9,548,177	34,084,122	721,645	--	1,060,909	792,654
WELLS	17	2	9	28				
FOOTAGE	148,525	15,921	74,747	239,193	8,737	7,961	8,305	8,543
COSTS \$	20,878,330	2,218,900	12,603,066	35,700,296	1,228,137	1,109,450	1,400,341	1,275,011
WELLS	3	--	2	5				
FOOTAGE	33,027	--	21,940	54,967	11,009	--	10,970	10,993
COSTS \$	7,113,203	--	4,829,633	11,942,836	2,371,068	--	2,414,817	2,388,567
WELLS	2	--	1	3				
FOOTAGE	28,682	--	14,051	42,733	14,341	--	14,051	14,244
COSTS \$	7,090,343	--	2,880,455	9,970,798	3,545,172	--	2,880,455	3,323,599
WELLS	--	--	1	1				
FOOTAGE	--	--	15,293	15,293	--	--	15,293	15,293
COSTS \$	--	--	3,656,797	3,656,797	--	--	3,656,797	3,656,797
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	284	3	52	339				
TOTAL FOOTAGE	1,029,586	20,893	258,571	1,309,050	3,625	6,964	4,973	3,862
TOTAL COSTS \$	115,848,842	2,817,081	44,744,393	163,410,316	407,918	939,027	860,469	482,036

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 13

CALIFORNIA - EAST CENTRAL

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	1,056	--	14	1,070				
FOOTAGE	970,244	--	11,375	981,619	919	--	813	917
COSTS \$	79,005,911	--	778,433	79,784,344	74,816	--	55,602	74,565
WELLS	797	--	13	810				
FOOTAGE	1,241,405	--	25,669	1,267,074	1,558	--	1,975	1,564
COSTS \$	90,984,617	--	1,620,591	92,605,208	114,159	--	124,661	114,327
WELLS	187	4	25	216				
FOOTAGE	547,867	11,575	76,398	635,840	2,930	2,894	3,056	2,944
COSTS \$	57,811,989	1,178,852	3,891,312	62,882,153	309,155	294,713	155,652	291,121
WELLS	44	3	17	64				
FOOTAGE	193,311	12,550	71,089	276,950	4,393	4,183	4,182	4,327
COSTS \$	21,017,484	705,190	3,859,254	25,581,928	477,670	235,063	227,015	399,718
WELLS	139	5	12	156				
FOOTAGE	859,048	31,682	76,928	967,658	6,180	6,336	6,411	6,203
COSTS \$	108,574,654	2,594,564	5,242,991	116,412,209	781,113	518,913	436,916	746,232
WELLS	57	--	23	80				
FOOTAGE	496,938	--	194,070	691,008	8,718	--	8,438	8,638
COSTS \$	55,430,762	--	13,793,983	69,224,745	972,470	--	599,738	865,309
WELLS	6	--	18	24				
FOOTAGE	69,503	--	197,174	266,677	11,584	--	10,954	11,112
COSTS \$	14,288,845	--	19,233,075	33,521,920	2,381,474	--	1,068,504	1,396,747
WELLS	3	--	8	11				
FOOTAGE	42,323	--	106,325	148,648	14,108	--	13,291	13,513
COSTS \$	10,716,944	--	17,423,957	28,140,901	3,572,315	--	2,177,995	2,558,264
WELLS	--	--	8	8				
FOOTAGE	--	--	92,532	92,532	--	--	15,422	15,422
COSTS \$	--	--	14,271,673	14,271,673	--	--	2,378,612	2,378,612
WELLS	--	--	2	2				
FOOTAGE	--	--	35,153	35,153	--	--	17,577	17,577
COSTS \$	--	--	8,207,060	8,207,060	--	--	4,103,530	4,103,530
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	2,289	12	138	2,439				
TOTAL FOOTAGE	4,420,639	55,807	886,713	5,363,159	1,931	4,651	6,425	2,199
TOTAL COSTS \$	437,831,206	4,478,606	88,322,329	530,632,141	191,276	373,217	640,017	217,561

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 14

CALIFORNIA - SOUTH

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	13	--	--	13				
FOOTAGE	14,549	--	--	14,549	1,119	--	--	1,119
COSTS \$	1,030,071	--	--	1,030,071	79,236	--	--	79,236
WELLS	55	--	2	57				
FOOTAGE	96,416	--	3,668	100,084	1,753	--	1,834	1,756
COSTS \$	9,800,955	--	750,176	10,551,131	178,199	--	375,088	185,108
WELLS	49	--	--	49				
FOOTAGE	144,987	--	--	144,987	2,959	--	--	2,959
COSTS \$	19,284,747	--	--	19,284,747	393,566	--	--	393,566
WELLS	54	--	4	58				
FOOTAGE	219,566	--	16,830	236,396	4,066	--	4,208	4,076
COSTS \$	30,837,745	--	1,702,926	32,540,671	571,069	--	425,732	561,046
WELLS	14	--	6	20				
FOOTAGE	83,378	--	35,573	118,951	5,956	--	5,929	5,948
COSTS \$	9,609,023	--	7,148,462	16,757,485	686,359	--	1,191,410	837,874
WELLS	12	--	--	12				
FOOTAGE	103,919	--	--	103,919	8,660	--	--	8,660
COSTS \$	17,884,190	--	--	17,884,190	1,490,349	--	--	1,490,349
WELLS	3	--	1	4				
FOOTAGE	34,445	--	10,605	45,050	11,482	--	10,605	11,263
COSTS \$	10,786,462	--	2,713,784	13,500,246	3,595,487	--	2,713,784	3,375,062
WELLS	--	--	1	1				
FOOTAGE	--	--	13,675	13,675	--	--	13,675	13,675
COSTS \$	--	--	4,649,500	4,649,500	--	--	4,649,500	4,649,500
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	200	--	14	214				
TOTAL FOOTAGE	697,260	--	80,351	777,611	3,486	--	5,739	3,634
TOTAL COSTS \$	99,233,193	--	16,964,848	116,198,041	496,166	--	1,211,775	542,982

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

CALIFORNIA - OFFSHORE

Table 15

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	2	--	1	3				
FOOTAGE	1,912	--	325	2,237	956	--	325	746
COSTS \$	394,635	--	130,852	525,487	197,318	--	130,852	175,162
WELLS	5	--	--	5				
FOOTAGE	10,636	--	--	10,636	2,127	--	--	2,127
COSTS \$	1,546,980	--	--	1,546,980	309,396	--	--	309,396
WELLS	32	--	--	32				
FOOTAGE	106,238	--	--	106,238	3,320	--	--	3,320
COSTS \$	12,811,858	--	--	12,811,858	400,371	--	--	400,371
WELLS	44	--	3	47				
FOOTAGE	192,342	--	13,983	206,325	4,371	--	4,661	4,390
COSTS \$	32,603,766	--	1,328,479	33,932,245	740,995	--	442,826	721,963
WELLS	36	--	2	38				
FOOTAGE	208,923	--	12,037	220,960	5,803	--	6,019	5,815
COSTS \$	38,580,126	--	869,057	39,449,183	1,071,670	--	434,529	1,038,136
WELLS	16	--	5	21				
FOOTAGE	135,495	--	45,433	180,928	8,468	--	9,087	8,616
COSTS \$	36,776,373	--	46,108,575	82,884,948	2,298,523	--	9,221,715	3,946,902
WELLS	11	--	5	16				
FOOTAGE	117,813	--	57,092	174,905	10,710	--	11,418	10,932
COSTS \$	55,640,302	--	31,742,302	87,382,604	5,058,210	--	6,348,461	5,461,413
WELLS	1	--	2	3				
FOOTAGE	13,000	--	26,710	39,710	13,000	--	13,355	13,237
COSTS \$	15,034,281	--	32,459,741	47,494,022	15,034,281	--	16,229,871	15,831,341
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	1	--	1				
FOOTAGE	--	18,000	--	18,000	--	18,000	--	18,000
COSTS \$	--	9,813,024	--	9,813,024	--	9,813,024	--	9,813,024
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	147	1	18	166				
TOTAL FOOTAGE	786,359	18,000	155,580	959,939	5,349	18,000	8,643	5,783
TOTAL COSTS \$	193,388,321	9,813,024	112,639,006	315,840,351	1,315,567	9,813,024	6,257,723	1,902,653

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 16

COLORADO

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	9	--	36	45				
FOOTAGE 0 - 1,249	4,072	--	28,936	33,008	452	--	804	734
COSTS \$	489,336	--	4,374,306	4,863,642	54,371	--	121,509	108,081
WELLS	12	25	61	98				
FOOTAGE 1,250 - 2,499	21,012	51,255	115,455	187,722	1,751	2,050	1,893	1,916
COSTS \$	1,465,743	2,499,629	5,905,568	9,870,940	122,145	99,985	96,813	100,724
WELLS	11	142	110	263				
FOOTAGE 2,500 - 3,749	36,737	431,461	337,632	805,830	3,340	3,038	3,069	3,064
COSTS \$	2,073,365	25,243,118	12,993,887	40,310,370	188,488	177,768	118,126	153,271
WELLS	79	58	144	281				
FOOTAGE 3,750 - 4,999	377,628	257,520	663,401	1,298,549	4,780	4,440	4,607	4,621
COSTS \$	19,664,532	18,892,757	19,636,449	58,193,738	248,918	325,737	136,364	207,095
WELLS	215	135	307	657				
FOOTAGE 5,000 - 7,499	1,306,385	852,086	1,843,187	4,001,658	6,076	6,312	6,004	6,091
COSTS \$	92,297,522	67,170,002	71,871,099	231,338,623	429,291	497,556	234,108	352,114
WELLS	209	221	89	519				
FOOTAGE 7,500 - 9,999	1,651,417	1,791,284	733,800	4,176,501	7,902	8,105	8,245	8,047
COSTS \$	105,884,757	131,768,190	42,837,754	280,490,701	506,626	596,236	481,323	540,445
WELLS	1	5	5	11				
FOOTAGE 10,000 - 12,499	11,127	52,221	52,793	116,141	11,127	10,444	10,559	10,558
COSTS \$	1,086,094	6,104,641	11,176,196	18,366,931	1,086,094	1,220,928	2,235,239	1,669,721
WELLS	--	--	2	2				
FOOTAGE 12,500 - 14,999	--	--	26,312	26,312	--	--	13,156	13,156
COSTS \$	--	--	8,158,837	8,158,837	--	--	4,079,419	4,079,419
WELLS	--	--	1	1				
FOOTAGE 15,000 - 17,499	--	--	15,686	15,686	--	--	15,686	15,686
COSTS \$	--	--	8,627,300	8,627,300	--	--	8,627,300	8,627,300
WELLS	--	1	--	1				
FOOTAGE 17,500 - 19,999	--	18,535	--	18,535	--	18,535	--	18,535
COSTS \$	--	15,859,959	--	15,859,959	--	15,859,959	--	15,859,959
WELLS	--	--	--	--				
FOOTAGE 20,000 & OVER	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	536	587	755	1,878				
TOTAL FOOTAGE	3,408,378	3,454,362	3,817,202	10,679,942	6,359	5,885	5,056	5,687
TOTAL COSTS \$	222,961,349	267,538,296	185,581,396	676,081,041	415,973	455,772	245,803	360,001

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 17

FLORIDA

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	--	--	--	--	--	--	--
FOOTAGE 0 - 1,249	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE 1,250 - 2,499	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE 2,500 - 3,749	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE 3,750 - 4,999	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE 5,000 - 7,499	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	1	1	--	--	--	--
FOOTAGE 7,500 - 9,999	--	--	9,705	9,705	--	--	9,705	9,705
COSTS \$	--	--	5,322,447	5,322,447	--	--	5,322,447	5,322,447
WELLS	2	--	13	15	--	--	--	--
FOOTAGE 10,000 - 12,499	24,010	--	151,367	175,377	12,005	--	11,644	11,692
COSTS \$	3,829,900	--	21,242,295	25,072,195	1,914,950	--	1,634,023	1,671,480
WELLS	2	--	2	4	--	--	--	--
FOOTAGE 12,500 - 14,999	25,504	--	25,746	51,250	12,752	--	12,873	12,813
COSTS \$	7,135,300	--	4,155,685	11,290,985	3,567,650	--	2,077,843	2,822,746
WELLS	4	--	1	5	--	--	--	--
FOOTAGE 15,000 - 17,499	63,825	--	15,483	79,308	15,956	--	15,483	15,862
COSTS \$	13,401,800	--	923,169	14,324,969	3,350,450	--	923,169	2,864,994
WELLS	--	--	--	--	--	--	--	--
FOOTAGE 17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE 20,000 & OVER	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	8	--	17	25	--	--	--	--
TOTAL FOOTAGE	113,339	--	202,301	315,640	14,167	--	11,900	12,626
TOTAL COSTS \$	24,367,000	--	31,643,596	56,010,596	3,045,875	--	1,861,388	2,240,424

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 18

ILLINOIS

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS FOOTAGE COSTS \$	248 208,821 11,748,782	8 6,746 204,090	144 113,748 2,549,053	400 329,315 14,501,925				
1,250 - 2,499	375 701,457 34,612,621	3 5,628 186,212	171 325,291 7,015,622	549 1,032,376 41,814,455	842 47,374	843 25,511	790 17,702	823 36,255
2,500 - 3,749	885 2,823,662 111,412,944	2 5,888 158,976	755 2,404,279 47,398,295	1,642 5,233,829 158,970,215	1,871 92,300	1,876 62,071	1,902 41,027	1,880 76,165
3,750 - 4,999	237 972,737 44,618,837	--	206 842,309 18,205,625	443 1,815,046 62,824,462	3,191 125,890	2,944 79,488	3,184 62,779	3,187 96,815
5,000 - 7,499	14 76,395 5,539,639	--	7 37,339 1,249,354	21 113,734 6,788,993	4,104 188,265	--	4,089 88,377	4,097 141,816
7,500 - 9,999	--	--	--	--	5,457 395,689	--	5,334 178,479	5,416 323,285
10,000 - 12,499	--	--	--	--	--	--	--	--
12,500 - 14,999	--	--	--	--	--	--	--	--
15,000 - 17,499	--	--	--	--	--	--	--	--
17,500 - 19,999	--	--	--	--	--	--	--	--
20,000 & OVER	--	--	--	--	--	--	--	--
TOTAL WELLS	1,759	13	1,283	3,055				
TOTAL FOOTAGE	4,783,072	18,262	3,722,966	8,524,300	2,719	1,405	2,902	2,790
TOTAL COSTS \$	207,932,823	549,278	76,417,949	284,900,050	118,211	42,252	59,562	93,257

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

INDIANA

Table 19

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	63	26	104	193				
FOOTAGE	60,514	24,109	96,330	180,953	961	927	926	938
COSTS \$	1,536,680	1,039,440	2,319,004	4,895,124	24,392	39,978	22,298	25,363
WELLS	207	6	205	418				
FOOTAGE	393,844	10,602	401,774	806,220	1,903	1,767	1,960	1,929
COSTS \$	16,562,535	737,236	10,126,801	27,426,572	80,012	122,873	49,399	65,614
WELLS	82	1	107	190				
FOOTAGE	232,036	2,750	303,187	537,973	2,830	2,750	2,834	2,831
COSTS \$	7,699,064	259,285	7,306,983	15,265,332	93,291	259,285	68,290	80,344
WELLS	2	--	--	2				
FOOTAGE	8,406	--	--	8,406	4,203	--	--	4,203
COSTS \$	438,008	--	--	438,008	219,004	--	--	219,004
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	354	33	416	803				
TOTAL FOOTAGE	694,800	37,461	801,291	1,533,552	1,963	1,135	1,926	1,910
TOTAL COSTS \$	26,236,287	2,035,961	19,752,788	48,025,036	74,114	61,696	47,483	59,807

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 20

KANSAS

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS								
FOOTAGE	399	76	97	572				
COSTS \$	318,934	57,619	76,683	453,236	799	758	791	792
	7,240,580	2,051,968	2,736,057	12,028,605	18,147	27,000	28,207	21,029
WELLS								
FOOTAGE	389	94	249	722				
COSTS \$	770,143	164,225	499,512	1,433,880	1,980	1,955	2,006	1,986
	22,258,834	8,340,184	11,373,753	41,972,771	57,221	99,288	45,678	58,134
WELLS								
FOOTAGE	1,368	182	1,304	2,854				
COSTS \$	4,500,682	542,923	4,340,279	9,383,884	3,290	2,983	3,328	3,288
	157,862,339	24,983,659	90,849,571	273,695,569	115,396	137,273	69,670	95,899
WELLS								
FOOTAGE	978	210	1,466	2,654				
COSTS \$	4,217,024	953,089	6,362,516	11,532,629	4,312	4,539	4,340	4,345
	170,310,328	34,626,774	146,171,606	351,108,708	174,141	164,889	99,708	132,294
WELLS								
FOOTAGE	153	125	351	629				
COSTS \$	844,927	712,486	1,945,716	3,503,129	5,522	5,700	5,543	5,569
	45,745,980	34,708,105	62,493,385	142,947,470	298,993	277,665	178,044	227,261
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	3,287	677	3,467	7,431				
TOTAL FOOTAGE	10,651,710	2,430,342	13,224,706	26,306,758	3,241	3,590	3,814	3,540
TOTAL COSTS \$	403,418,061	104,710,690	313,624,372	821,753,123	122,731	154,669	90,460	110,584

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 21

KENTUCKY

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	410	8	385	803				
FOOTAGE	320,731	6,680	238,294	565,705	782	835	619	704
COSTS \$	11,563,388	228,243	4,411,528	16,203,159	28,203	28,530	11,459	20,178
WELLS	328	47	494	869				
FOOTAGE	547,582	98,706	872,353	1,508,641	1,669	1,887	1,766	1,736
COSTS \$	21,594,587	4,709,741	18,140,357	44,434,685	65,807	100,207	36,721	51,133
WELLS	60	87	80	227				
FOOTAGE	183,444	259,143	233,181	675,768	3,057	2,979	2,915	2,977
COSTS \$	8,964,053	15,349,980	7,082,162	31,395,195	149,401	176,425	88,527	138,305
WELLS	9	25	3	37				
FOOTAGE	36,609	101,762	12,682	151,053	4,068	4,070	4,227	4,083
COSTS \$	1,841,534	5,681,182	525,042	8,047,758	204,615	227,247	175,014	217,507
WELLS	--	2	--	2				
FOOTAGE	--	11,186	--	11,186	--	5,593	--	5,593
COSTS \$	--	690,578	--	690,578	--	345,289	--	345,289
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	1	1				
FOOTAGE	--	--	10,951	10,951	--	--	10,951	10,951
COSTS \$	--	--	2,756,162	2,756,162	--	--	2,756,162	2,756,162
WELLS	--	--	1	1				
FOOTAGE	--	--	12,965	12,965	--	--	12,965	12,965
COSTS \$	--	--	2,688,014	2,688,014	--	--	2,688,014	2,688,014
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	807	169	964	1,940				
TOTAL FOOTAGE	1,088,366	467,477	1,380,426	2,936,269	1,349	2,766	1,432	1,514
TOTAL COSTS \$	43,953,562	26,658,724	35,603,265	106,215,551	54,465	157,744	36,933	54,750

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

LOUISIANA - TOTAL

Table 22

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	325	14	33	372				
FOOTAGE	316,233	13,889	32,084	362,206				
COSTS \$	10,846,402	403,242	3,957,943	15,207,587	973	992	972	974
					33,374	28,803	119,938	40,881
WELLS	337	845	139	1,321				
FOOTAGE	624,456	1,928,712	285,509	2,838,677				
COSTS \$	24,161,430	37,191,697	6,650,411	68,003,538	1,853	2,282	2,054	2,149
					71,696	44,014	47,845	51,479
WELLS	284	115	326	725				
FOOTAGE	859,727	340,149	991,538	2,191,414				
COSTS \$	43,790,960	11,951,966	24,049,408	79,792,334	3,027	2,958	3,042	3,023
					154,194	103,930	73,771	110,058
WELLS	66	52	176	294				
FOOTAGE	283,279	219,801	769,710	1,272,790				
COSTS \$	16,682,908	37,906,195	35,091,087	89,680,190	4,292	4,227	4,373	4,324
					252,771	728,965	199,381	305,035
WELLS	183	92	293	568				
FOOTAGE	1,117,053	594,076	1,800,124	3,511,253				
COSTS \$	127,138,007	144,694,190	109,091,458	380,923,655	6,104	6,457	6,144	6,182
					694,743	1,572,763	372,326	670,640
WELLS	198	229	325	752				
FOOTAGE	1,765,412	2,033,777	2,877,236	6,676,425				
COSTS \$	358,202,939	408,870,751	334,552,705	1,101,626,395	8,916	8,381	8,253	8,878
					1,809,106	1,785,462	1,029,393	1,464,929
WELLS	148	226	440	814				
FOOTAGE	1,647,334	2,513,202	4,891,768	9,052,304				
COSTS \$	322,290,624	561,172,224	693,547,351	1,577,010,199	11,131	11,120	11,118	11,121
					2,177,639	2,483,063	1,576,244	1,937,359
WELLS	74	137	235	446				
FOOTAGE	1,010,060	1,864,380	3,185,437	6,059,877				
COSTS \$	266,065,476	590,140,512	687,096,066	1,543,302,054	13,649	13,609	13,555	13,587
					3,595,480	4,307,595	2,923,813	3,460,319
WELLS	12	79	117	208				
FOOTAGE	192,159	1,264,492	1,876,046	3,332,697				
COSTS \$	60,387,730	506,376,818	532,277,703	1,099,042,251	16,013	16,006	16,035	16,023
					5,032,311	6,409,833	4,549,382	5,283,857
WELLS	3	40	40	83				
FOOTAGE	54,995	742,387	742,480	1,539,862				
COSTS \$	19,582,233	414,809,832	283,424,017	717,816,082	18,332	18,560	18,562	18,553
					6,527,411	10,370,246	7,085,601	8,648,387
WELLS	--	13	23	36				
FOOTAGE	--	275,351	486,714	762,065				
COSTS \$	--	174,503,418	285,764,210	460,267,628	--	21,181	21,161	21,168
					--	13,423,340	12,424,531	12,785,212
TOTAL WELLS	1,630	1,842	2,147	5,619				
TOTAL FOOTAGE	7,870,708	11,790,216	17,938,646	37,599,570				
TOTAL COSTS \$	1,249,148,709	2,888,020,845	2,995,502,359	7,132,671,913	4,829	6,401	8,355	6,692
					766,349	1,567,872	1,395,204	1,269,385

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

LOUISIANA - NORTH

Table 23

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	324	14	27	365				
FOOTAGE	315,228	13,889	25,841	354,958	973	992	957	972
COSTS \$	10,659,871	403,242	999,601	12,062,714	32,901	28,803	37,022	33,049
WELLS	330	838	133	1,301				
FOOTAGE	609,802	1,916,670	274,271	2,800,743	1,848	2,287	2,062	2,153
COSTS \$	22,497,382	33,782,494	4,212,485	60,492,361	68,174	40,313	31,673	46,497
WELLS	264	110	310	684				
FOOTAGE	798,591	324,811	941,977	2,065,379	3,025	2,953	3,039	3,020
COSTS \$	36,787,874	6,853,860	14,609,500	58,251,234	139,348	62,308	47,127	85,163
WELLS	48	33	148	229				
FOOTAGE	203,438	135,196	646,695	985,329	4,238	4,097	4,370	4,303
COSTS \$	8,605,280	3,313,657	11,014,370	22,933,307	179,277	100,414	74,421	100,145
WELLS	105	29	212	346				
FOOTAGE	620,890	188,138	1,295,502	2,104,530	5,913	6,488	6,111	6,082
COSTS \$	34,525,658	11,641,186	30,296,085	76,462,929	328,816	401,420	142,906	220,991
WELLS	20	93	72	185				
FOOTAGE	176,516	830,034	624,241	1,630,791	8,826	8,925	8,670	8,815
COSTS \$	16,273,580	77,557,724	36,104,905	129,936,209	813,679	833,954	501,457	702,358
WELLS	22	67	43	132				
FOOTAGE	240,624	742,567	462,827	1,446,018	10,937	11,083	10,763	10,955
COSTS \$	26,115,622	125,407,193	37,265,688	188,788,503	1,187,074	1,371,749	866,644	1,430,216
WELLS	1	16	9	26				
FOOTAGE	12,520	216,628	122,658	351,806	12,520	13,539	13,629	13,531
COSTS \$	1,524,115	64,497,669	27,097,266	93,119,050	1,524,115	4,031,104	3,010,807	3,581,502
WELLS	--	--	3	3				
FOOTAGE	--	--	47,828	47,828	--	--	15,943	15,943
COSTS \$	--	--	14,725,930	14,725,930	--	--	4,908,644	4,908,644
WELLS	--	--	1	1				
FOOTAGE	--	--	19,500	19,500	--	--	19,500	19,500
COSTS \$	--	--	11,843,636	11,843,636	--	--	11,843,636	11,843,636
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	1,114	1,200	958	3,272				
TOTAL FOOTAGE	2,977,609	4,367,933	4,461,340	11,806,882	2,673	3,640	4,657	3,608
TOTAL COSTS \$	156,989,382	323,457,025	188,169,466	668,615,873	140,924	269,548	196,419	204,345

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 24

LOUISIANA - SOUTH

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	1	--	2	3				
FOOTAGE	1,005	--	2,189	3,194	1,005	--	1,095	1,065
COSTS \$	186,531	--	333,065	519,596	186,531	--	166,533	173,199
WELLS	7	4	5	16				
FOOTAGE	14,654	8,211	9,108	31,973	2,093	2,053	1,822	1,998
COSTS \$	1,664,048	720,970	678,390	3,063,408	237,721	180,243	135,678	191,463
WELLS	19	2	11	32				
FOOTAGE	58,016	5,230	33,264	96,510	3,053	2,615	3,024	3,016
COSTS \$	4,651,985	439,100	2,408,045	7,499,130	244,841	219,550	218,913	234,348
WELLS	16	4	17	37				
FOOTAGE	70,014	17,100	73,262	160,376	4,376	4,275	4,310	4,334
COSTS \$	5,707,341	1,093,253	7,619,002	14,419,596	356,709	273,313	448,177	389,719
WELLS	38	7	47	92				
FOOTAGE	233,139	45,204	287,341	565,684	6,135	6,458	6,114	6,149
COSTS \$	21,184,977	4,603,429	17,516,978	43,305,384	557,499	657,633	372,702	470,711
WELLS	88	46	164	298				
FOOTAGE	790,564	411,528	1,467,476	2,669,568	8,984	8,946	8,948	8,958
COSTS \$	82,142,856	42,878,585	99,693,644	224,715,085	933,442	932,143	607,888	754,077
WELLS	77	73	291	441				
FOOTAGE	859,840	817,768	3,259,463	4,937,071	11,167	11,202	11,201	11,195
COSTS \$	112,630,677	133,319,570	301,619,003	547,569,250	1,462,736	1,826,296	1,036,491	1,241,654
WELLS	28	65	160	253				
FOOTAGE	379,420	886,498	2,165,901	3,431,819	13,551	13,638	13,537	13,565
COSTS \$	65,911,214	205,774,635	305,020,950	576,706,799	2,353,972	3,165,764	1,906,381	2,279,474
WELLS	5	49	89	143				
FOOTAGE	80,296	784,366	1,428,883	2,293,545	16,059	16,007	16,055	16,039
COSTS \$	18,118,233	224,844,071	330,359,262	573,321,566	3,623,647	4,588,655	3,711,902	4,009,242
WELLS	2	33	33	68				
FOOTAGE	36,916	616,983	613,963	1,267,862	18,458	18,696	18,605	18,645
COSTS \$	10,558,475	345,463,511	199,390,771	555,412,757	5,279,238	10,468,591	6,042,145	8,167,835
WELLS	--	10	20	30				
FOOTAGE	--	213,498	424,934	638,432	--	21,350	21,247	21,281
COSTS \$	--	123,982,404	257,153,510	381,135,914	--	12,398,240	12,857,676	12,704,530
TOTAL WELLS	281	293	839	1,413				
TOTAL FOOTAGE	2,523,864	3,806,386	9,765,784	16,096,034	8,982	12,991	11,640	11,391
TOTAL COSTS \$	322,756,337	1,083,119,528	1,521,792,620	2,927,668,485	1,148,599	3,696,654	1,813,817	2,071,952

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

LOUISIANA - OFFSHORE

Table 25

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	--	4	4	--	--	--	--
FOOTAGE	--	--	4,054	4,054	--	--	1,014	1,014
COSTS \$	--	--	2,625,277	2,625,277	--	--	656,319	656,319
WELLS	--	3	1	4	--	--	--	--
FOOTAGE	--	3,831	2,130	5,961	--	1,277	2,130	1,490
COSTS \$	--	2,688,233	1,759,536	4,447,769	--	896,078	1,759,536	1,111,942
WELLS	1	3	5	9	--	--	--	--
FOOTAGE	3,120	10,108	16,297	29,525	3,120	3,369	3,259	3,281
COSTS \$	2,351,101	4,659,006	7,031,863	14,041,970	2,351,101	1,553,002	1,406,373	1,560,219
WELLS	2	15	11	28	--	--	--	--
FOOTAGE	9,827	67,505	49,753	127,085	4,914	4,500	4,523	4,539
COSTS \$	2,370,287	33,499,285	16,457,715	52,327,287	1,185,144	2,233,286	1,496,156	1,868,832
WELLS	40	56	34	130	--	--	--	--
FOOTAGE	263,024	360,734	217,281	841,039	6,576	6,442	6,391	6,470
COSTS \$	71,427,372	128,449,575	61,278,395	261,155,342	1,785,684	2,293,743	1,802,306	2,008,887
WELLS	90	90	89	269	--	--	--	--
FOOTAGE	798,332	792,215	785,519	2,376,066	8,870	8,802	8,826	8,833
COSTS \$	259,786,503	288,434,442	198,754,156	746,975,101	2,886,517	3,204,827	2,233,193	2,776,859
WELLS	49	86	106	241	--	--	--	--
FOOTAGE	546,870	952,867	1,169,478	2,669,215	11,161	11,080	11,033	11,076
COSTS \$	183,544,325	302,445,461	354,662,660	840,652,446	3,745,803	3,516,808	3,345,874	3,488,185
WELLS	45	56	66	167	--	--	--	--
FOOTAGE	613,120	761,254	896,878	2,276,252	13,736	13,594	13,589	13,630
COSTS \$	198,630,147	319,869,208	354,977,850	873,476,205	4,414,004	5,711,933	5,378,453	5,230,397
WELLS	7	30	25	62	--	--	--	--
FOOTAGE	111,863	480,126	399,335	991,324	15,980	16,004	15,973	15,989
COSTS \$	42,269,497	281,532,747	187,192,511	510,994,755	6,038,500	9,384,425	7,487,701	8,241,851
WELLS	1	7	6	14	--	--	--	--
FOOTAGE	19,079	125,404	109,017	252,500	18,079	17,915	18,170	18,036
COSTS \$	9,023,758	69,346,321	72,189,610	150,559,689	9,023,758	9,906,617	12,031,602	10,754,264
WELLS	--	3	3	6	--	--	--	--
FOOTAGE	--	61,853	61,780	123,633	--	20,618	20,593	20,606
COSTS \$	--	50,521,014	29,610,700	79,131,714	--	16,840,339	9,536,900	13,188,619
TOTAL WELLS	235	349	350	934	--	--	--	--
TOTAL FOOTAGE	2,369,235	3,615,897	3,711,522	9,696,654	10,082	10,361	10,604	10,382
TOTAL COSTS \$	769,402,990	1,481,444,292	1,285,540,273	3,536,387,555	3,274,055	4,244,826	3,672,972	3,786,282

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 26

MICHIGAN

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	19	--	15	34				
FOOTAGE	18,937	--	13,738	32,675	997	--	916	961
COSTS \$	1,524,020	--	517,835	2,041,855	80,212	--	34,522	60,055
WELLS	24	7	24	55				
FOOTAGE	51,254	11,952	42,032	105,238	2,136	1,707	1,751	1,913
COSTS \$	3,510,894	229,929	2,989,611	6,730,434	146,287	32,847	124,567	122,372
WELLS	80	10	98	188				
FOOTAGE	256,529	33,602	318,364	608,495	3,207	3,360	3,249	3,237
COSTS \$	15,394,761	3,075,344	19,763,578	38,233,683	192,435	307,534	201,669	203,371
WELLS	78	7	127	212				
FOOTAGE	332,720	29,544	550,142	912,406	4,266	4,221	4,332	4,304
COSTS \$	22,597,487	2,658,678	31,199,367	56,455,532	289,711	379,811	245,664	266,300
WELLS	50	15	144	209				
FOOTAGE	308,377	96,975	892,784	1,298,136	6,168	6,465	6,200	6,211
COSTS \$	27,515,728	8,267,278	52,834,881	88,617,887	550,315	551,152	366,909	424,009
WELLS	1	1	3	5				
FOOTAGE	7,520	8,710	23,987	40,217	7,520	8,710	7,996	8,043
COSTS \$	590,132	213,126	1,613,930	2,417,188	590,132	213,126	537,977	483,438
WELLS	--	1	13	14				
FOOTAGE	--	10,810	145,296	156,106	--	10,810	11,177	11,150
COSTS \$	--	1,759,537	22,861,017	24,619,554	--	1,758,537	1,758,540	1,758,540
WELLS	--	--	1	1				
FOOTAGE	--	--	14,800	14,800	--	--	14,800	14,800
COSTS \$	--	--	5,151,194	5,151,194	--	--	5,151,194	5,151,194
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	252	41	425	718				
TOTAL FOOTAGE	975,337	191,593	2,001,143	3,168,073	3,870	4,673	4,709	4,412
TOTAL COSTS \$	71,133,022	16,202,992	136,931,413	224,267,327	282,274	395,193	322,192	312,350

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

MISSISSIPPI

Table 27

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	2	7	9	--	--	--	--
FOOTAGE	--	4,924	13,217	18,141	--	2,462	1,888	2,016
COSTS \$	--	608,000	2,263,515	2,871,515	--	304,000	323,359	319,057
WELLS	--	13	13	26	--	--	--	--
FOOTAGE	--	36,817	40,078	76,895	--	2,832	3,083	2,958
COSTS \$	--	4,836,891	2,303,831	7,140,722	--	372,069	177,218	274,643
WELLS	25	2	43	70	--	--	--	--
FOOTAGE	108,110	8,277	192,851	309,238	4,324	4,139	4,485	4,418
COSTS \$	3,627,134	1,123,110	4,892,998	9,643,242	145,085	561,555	113,791	137,761
WELLS	82	9	245	336	--	--	--	--
FOOTAGE	505,443	52,381	1,583,796	2,141,620	6,164	5,820	6,464	6,374
COSTS \$	28,115,837	6,117,087	36,049,058	70,281,982	342,876	679,676	147,139	209,173
WELLS	24	--	70	94	--	--	--	--
FOOTAGE	204,266	--	572,637	776,903	8,511	--	8,181	8,265
COSTS \$	17,032,065	--	18,898,341	35,930,406	709,669	--	269,976	382,238
WELLS	17	8	42	67	--	--	--	--
FOOTAGE	189,130	90,072	468,639	747,841	11,125	11,259	11,158	11,162
COSTS \$	20,417,229	11,743,541	24,044,332	56,205,102	1,201,014	1,467,943	572,484	838,882
WELLS	9	18	40	67	--	--	--	--
FOOTAGE	121,991	251,273	555,690	928,954	13,555	13,960	13,892	13,865
COSTS \$	13,817,351	35,991,224	47,388,286	97,196,861	1,535,261	1,999,513	1,184,707	1,450,699
WELLS	6	30	48	84	--	--	--	--
FOOTAGE	95,194	496,206	787,933	1,379,333	15,866	16,540	16,415	16,421
COSTS \$	13,505,728	84,566,944	114,692,154	212,764,826	2,250,955	2,818,898	2,389,420	2,532,915
WELLS	1	4	14	19	--	--	--	--
FOOTAGE	18,831	73,050	260,375	352,256	18,831	18,263	18,598	18,540
COSTS \$	2,918,805	24,169,771	57,531,974	84,620,550	2,918,805	6,042,443	4,109,427	4,453,713
WELLS	--	1	8	9	--	--	--	--
FOOTAGE	--	23,198	177,079	200,277	--	23,198	22,135	22,253
COSTS \$	--	2,103,218	114,753,139	116,856,357	--	2,103,218	14,344,142	12,984,040
TOTAL WELLS	164	87	530	781	--	--	--	--
TOTAL FOOTAGE	1,242,965	1,036,198	4,652,295	6,931,458	7,579	11,910	8,778	8,875
TOTAL COSTS \$	99,434,149	171,259,786	422,817,628	693,511,563	606,306	1,968,503	797,769	887,979

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

MONTANA

Table 28

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	2	52	43	97				
FOOTAGE	2,465	56,553	34,217	93,235	1,233	1,088	796	961
COSTS \$	303,602	2,633,171	1,756,977	4,693,750	151,801	50,638	40,860	48,389
WELLS	122	111	180	413				
FOOTAGE	213,700	183,194	341,537	738,431	1,752	1,650	1,897	1,788
COSTS \$	12,999,020	7,906,459	11,832,129	32,737,608	106,549	71,229	65,734	79,268
WELLS	35	23	72	130				
FOOTAGE	103,077	64,378	221,693	389,148	2,945	2,799	3,079	2,993
COSTS \$	5,639,800	2,925,558	8,872,229	17,437,587	161,137	127,198	123,225	134,135
WELLS	24	3	48	75				
FOOTAGE	102,735	12,626	205,287	320,648	4,281	4,209	4,277	4,275
COSTS \$	5,453,740	773,077	9,783,625	16,010,442	227,239	257,692	203,326	213,473
WELLS	27	4	81	112				
FOOTAGE	168,305	25,289	500,555	694,149	6,234	6,322	6,180	6,198
COSTS \$	12,717,623	1,768,290	34,007,063	48,492,976	471,023	442,073	419,840	432,973
WELLS	110	1	55	166				
FOOTAGE	999,780	8,098	478,708	1,486,586	9,089	8,098	8,704	8,955
COSTS \$	104,629,373	686,709	46,078,322	151,394,404	951,176	686,709	837,788	912,015
WELLS	75	2	74	151				
FOOTAGE	865,268	23,256	842,959	1,731,483	11,537	11,628	11,391	11,467
COSTS \$	119,436,569	3,773,183	102,899,714	226,109,466	1,592,488	1,886,592	1,390,537	1,497,414
WELLS	47	2	24	73				
FOOTAGE	600,472	25,575	305,800	931,847	12,776	12,788	12,742	12,765
COSTS \$	82,280,203	3,778,162	38,058,148	124,116,513	1,750,643	1,889,081	1,585,756	1,700,226
WELLS	--	--	1	1				
FOOTAGE	--	--	16,047	16,047	--	--	16,047	16,047
COSTS \$	--	--	8,669,935	8,669,935	--	--	8,669,935	8,669,935
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	442	198	578	1,218				
TOTAL FOOTAGE	3,055,802	398,969	2,946,803	6,401,574	6,914	2,015	5,098	5,256
TOTAL COSTS \$	343,459,930	24,244,609	261,958,142	629,662,681	777,059	122,448	453,215	516,964

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

NEBRASKA

Table 29

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	--	1	1				
FOOTAGE	--	--	729	729	--	--	729	729
COSTS \$	--	--	37,908	37,908	--	--	37,908	37,908
WELLS	4	5	11	20				
FOOTAGE	9,171	10,391	23,680	43,242	2,293	2,078	2,153	2,162
COSTS \$	359,184	453,827	1,211,786	2,024,797	89,796	90,765	110,162	101,240
WELLS	21	2	28	51				
FOOTAGE	74,644	5,550	97,426	177,620	3,554	2,775	3,480	3,483
COSTS \$	3,086,458	217,837	2,826,208	6,130,503	146,974	108,919	100,936	120,206
WELLS	162	1	134	297				
FOOTAGE	683,160	3,800	587,644	1,274,604	4,217	3,800	4,385	4,292
COSTS \$	29,608,095	110,200	12,056,510	41,774,805	182,766	110,200	89,974	140,656
WELLS	55	2	163	220				
FOOTAGE	343,304	12,278	1,006,161	1,361,743	6,242	6,139	6,173	6,190
COSTS \$	14,200,615	262,749	16,143,396	30,606,760	258,193	131,375	99,039	139,122
WELLS	--	--	2	2				
FOOTAGE	--	--	15,355	15,355	--	--	7,678	7,678
COSTS \$	--	--	502,109	502,109	--	--	251,055	251,055
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	242	10	339	591				
TOTAL FOOTAGE	1,110,279	32,019	1,730,995	2,873,293	4,588	3,202	5,106	4,862
TOTAL COSTS \$	47,254,352	1,044,613	32,777,917	81,076,882	195,266	104,461	96,690	137,186

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

NEW MEXICO - TOTAL

Table 30

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	45	6	61	112				
FOOTAGE	39,434	6,701	38,995	85,130				
COSTS \$	4,524,256	447,140	8,632,631	13,604,027	876	1,117	639	760
					100,539	74,523	141,519	121,465
WELLS	76	87	58	221				
FOOTAGE	133,856	162,622	106,615	403,093				
COSTS \$	11,052,592	9,711,053	10,382,908	31,146,553	1,761	1,869	1,838	1,824
					145,429	111,621	179,016	140,935
WELLS	162	150	52	364				
FOOTAGE	495,055	474,376	164,321	1,133,752				
COSTS \$	35,248,756	32,181,197	12,700,737	80,130,690	3,056	3,163	3,160	3,115
					217,585	214,541	244,245	220,139
WELLS	182	196	43	421				
FOOTAGE	782,665	844,446	186,589	1,813,700				
COSTS \$	54,828,306	71,384,192	17,050,636	143,263,134	4,300	4,308	4,339	4,308
					301,254	364,205	396,526	340,292
WELLS	174	472	50	696				
FOOTAGE	1,073,247	3,028,337	300,756	4,402,340				
COSTS \$	87,286,344	196,980,561	27,616,731	311,883,636	6,168	6,416	6,015	6,325
					501,646	417,332	552,335	448,109
WELLS	84	187	50	321				
FOOTAGE	691,389	1,537,398	431,988	2,660,775				
COSTS \$	67,651,070	115,784,467	36,772,169	218,207,686	8,231	8,221	8,640	8,239
					805,370	619,168	695,443	679,775
WELLS	37	58	32	127				
FOOTAGE	405,039	650,770	348,365	1,404,174				
COSTS \$	42,873,579	67,017,302	30,710,562	140,601,443	10,947	11,220	10,886	11,056
					1,158,745	1,155,471	959,705	1,107,098
WELLS	16	83	14	113				
FOOTAGE	213,609	1,119,217	187,325	1,520,151				
COSTS \$	27,919,292	180,120,755	20,502,714	228,542,761	13,351	13,485	13,380	13,453
					1,744,956	2,170,130	1,464,480	2,022,502
WELLS	3	12	2	17				
FOOTAGE	47,938	188,230	31,120	267,288				
COSTS \$	10,595,369	43,916,223	4,402,875	58,914,467	15,979	15,686	15,560	15,723
					3,531,790	3,659,685	2,201,438	3,465,557
WELLS	--	4	--	4				
FOOTAGE	--	75,376	--	75,376				
COSTS \$	--	18,036,476	--	18,036,476	--	18,844	--	18,844
					--	4,509,119	--	4,509,119
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--				
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	779	1,255	362	2,396				
TOTAL FOOTAGE	3,882,232	8,087,473	1,796,074	13,765,779				
TOTAL COSTS \$	341,979,564	735,579,346	166,771,963	1,244,330,873	4,984	6,444	4,962	5,745
					438,998	586,119	460,696	519,337

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

NEW MEXICO - WEST

Table 31

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	20	6	25	51				
FOOTAGE	17,073	6,701	14,034	37,808	854	1,117	561	741
COSTS \$	2,196,529	447,140	1,780,845	4,424,514	109,826	74,523	71,234	86,755
WELLS	19	84	26	129				
FOOTAGE	32,174	157,270	44,620	234,064	1,693	1,872	1,716	1,814
COSTS \$	2,548,126	9,085,513	2,813,224	14,446,863	134,112	108,161	108,201	111,991
WELLS	4	108	20	132				
FOOTAGE	12,007	330,895	64,780	407,682	3,002	3,064	3,239	3,089
COSTS \$	936,356	17,790,285	3,254,887	21,981,528	234,089	164,725	162,744	166,527
WELLS	24	43	6	73				
FOOTAGE	110,636	184,711	26,703	322,050	4,610	4,296	4,451	4,412
COSTS \$	9,348,676	11,475,829	1,601,418	22,425,923	389,528	266,880	266,903	307,204
WELLS	112	449	18	579				
FOOTAGE	685,379	2,896,178	110,806	3,692,363	6,119	6,450	6,156	6,377
COSTS \$	54,986,499	185,749,895	11,331,379	252,067,773	490,951	413,697	629,521	435,350
WELLS	27	134	3	164				
FOOTAGE	211,821	1,062,860	24,794	1,299,475	7,845	7,932	8,265	7,924
COSTS \$	17,705,540	71,982,086	2,657,394	92,345,020	655,761	537,180	885,798	563,079
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	206	824	98	1,128				
TOTAL FOOTAGE	1,069,090	4,638,615	285,737	5,993,442	5,190	5,629	2,916	5,313
TOTAL COSTS \$	87,721,726	296,530,748	23,439,147	407,691,621	425,834	359,867	239,175	361,429

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

NEW MEXICO - EAST

Table 32

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	25	--	36	61				
FOOTAGE	22,361	--	24,961	47,322	894	--	693	776
COSTS \$	2,327,727	--	6,851,786	9,179,513	93,109	--	190,327	150,484
WELLS	57	3	32	92				
FOOTAGE	101,682	5,352	61,995	169,029	1,784	1,784	1,937	1,837
COSTS \$	8,504,466	625,540	7,569,684	16,699,690	149,201	208,513	236,553	181,518
WELLS	158	42	32	232				
FOOTAGE	483,048	143,481	99,541	726,070	3,057	3,416	3,111	3,130
COSTS \$	34,312,400	14,390,912	9,445,850	58,149,162	217,167	342,641	295,183	250,643
WELLS	158	153	37	348				
FOOTAGE	672,029	659,735	159,886	1,491,650	4,253	4,312	4,321	4,286
COSTS \$	45,479,630	59,908,363	15,449,219	120,837,211	287,846	391,558	417,546	347,233
WELLS	62	23	32	117				
FOOTAGE	387,868	132,159	189,950	709,977	6,256	5,746	5,936	6,068
COSTS \$	32,299,845	11,230,666	16,285,352	59,815,863	520,965	488,290	508,917	511,247
WELLS	57	53	47	157				
FOOTAGE	479,568	474,538	407,194	1,361,300	8,413	8,954	8,664	8,671
COSTS \$	49,945,530	43,802,361	32,114,775	125,862,666	876,237	826,460	683,293	801,673
WELLS	37	58	32	127				
FOOTAGE	405,039	650,770	348,365	1,404,174	10,947	11,220	10,886	11,056
COSTS \$	42,873,579	67,017,302	30,710,562	140,601,443	1,158,745	1,155,471	959,705	1,107,098
WELLS	16	83	14	113				
FOOTAGE	213,609	1,119,217	187,325	1,520,151	13,351	13,485	13,380	13,453
COSTS \$	27,919,292	180,120,755	20,502,714	228,542,761	1,744,836	2,170,130	1,464,480	2,022,502
WELLS	3	12	2	17				
FOOTAGE	47,938	183,230	31,120	267,288	15,979	15,686	15,560	15,723
COSTS \$	10,595,369	43,916,223	4,402,875	58,914,467	3,531,790	3,659,685	2,201,438	3,465,557
WELLS	--	4	--	4				
FOOTAGE	--	75,376	--	75,376	--	18,844	--	18,844
COSTS \$	--	18,036,476	--	18,036,476	--	4,509,119	--	4,509,119
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	573	431	264	1,268				
TOTAL FOOTAGE	2,813,142	3,448,858	1,510,337	7,772,337	4,909	8,002	5,721	6,130
TOTAL COSTS \$	254,257,838	439,048,598	143,332,816	836,639,252	443,731	1,018,674	542,927	659,810

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

NORTH DAKOTA

Table 33

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
0 - 1,249	--	--	--	--	--	--	--	--
WELLS	--	2	9	11	--	--	--	--
FOOTAGE	--	3,062	16,506	19,568	--	1,531	1,834	1,779
COSTS \$	--	199,030	2,091,515	2,290,545	--	99,515	232,391	208,231
WELLS	15	--	35	50	--	--	--	--
FOOTAGE	49,707	--	116,597	166,304	3,314	--	3,331	3,326
COSTS \$	3,637,299	--	4,826,979	8,464,278	242,487	--	137,914	169,286
WELLS	56	--	30	86	--	--	--	--
FOOTAGE	247,560	--	131,239	378,799	4,421	--	4,375	4,405
COSTS \$	20,543,064	--	5,699,863	26,242,927	366,840	--	189,995	305,150
WELLS	27	--	62	89	--	--	--	--
FOOTAGE	174,347	--	382,584	556,931	6,457	--	6,171	6,258
COSTS \$	14,804,046	--	20,552,428	35,356,474	548,298	--	331,491	397,264
WELLS	162	--	96	258	--	--	--	--
FOOTAGE	1,512,996	--	864,082	2,377,078	9,339	--	9,001	9,213
COSTS \$	169,424,670	--	72,454,465	241,879,135	1,045,831	--	754,734	937,516
WELLS	85	3	66	154	--	--	--	--
FOOTAGE	944,144	35,446	740,078	1,719,668	11,108	11,815	11,213	11,167
COSTS \$	120,470,637	5,404,954	81,239,781	207,115,372	1,417,302	1,801,651	1,230,906	1,344,905
WELLS	92	14	110	216	--	--	--	--
FOOTAGE	1,244,826	197,461	1,499,747	2,942,034	13,531	14,104	13,634	13,621
COSTS \$	206,838,039	37,895,742	198,375,994	443,109,775	2,248,240	2,706,839	1,803,418	2,051,434
WELLS	3	1	--	4	--	--	--	--
FOOTAGE	45,554	15,300	--	60,854	15,185	15,300	--	15,214
COSTS \$	9,096,809	2,873,987	--	11,970,796	3,032,270	2,873,987	--	2,992,699
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
20,000 & OVER	--	--	--	--	--	--	--	--
WELLS	440	20	408	868	--	--	--	--
TOTAL FOOTAGE	4,219,134	251,269	3,750,833	8,221,236	9,589	12,563	9,193	9,471
TOTAL COSTS \$	544,814,564	46,373,713	385,241,025	976,429,302	1,238,215	2,318,686	944,218	1,124,919

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

OKLAHOMA

Table 34

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLE	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	858	317	287	1,462				
FOOTAGE	756,863	281,169	212,277	1,250,309	882	887	740	855
COSTS \$	27,280,124	15,598,474	8,010,536	50,889,134	31,795	49,207	27,911	34,808
WELLS	1,381	410	481	2,272				
FOOTAGE	2,493,472	735,849	922,735	4,152,056	1,806	1,795	1,918	1,827
COSTS \$	121,127,758	34,698,184	27,099,239	182,925,181	87,710	84,630	56,339	80,513
WELLS	955	221	520	1,696				
FOOTAGE	2,902,264	682,614	1,629,152	5,214,030	3,039	3,089	3,133	3,074
COSTS \$	162,199,176	33,870,105	56,303,317	252,372,598	169,842	153,258	108,276	148,805
WELLS	723	110	465	1,298				
FOOTAGE	3,160,832	484,223	2,052,739	5,697,794	4,372	4,402	4,414	4,390
COSTS \$	193,165,559	28,146,214	90,059,198	311,370,971	267,172	255,875	193,676	239,885
WELLS	1,092	339	658	2,089				
FOOTAGE	6,713,983	2,185,248	3,978,595	12,877,826	6,148	6,446	6,046	6,165
COSTS \$	468,035,214	139,694,482	193,039,935	800,769,631	428,604	412,078	293,374	383,327
WELLS	1,190	362	259	1,811				
FOOTAGE	10,273,161	3,136,928	2,187,985	15,598,074	8,633	8,666	8,448	8,613
COSTS \$	872,450,974	264,081,566	143,951,954	1,280,484,494	733,152	729,507	555,799	707,059
WELLS	207	191	105	503				
FOOTAGE	2,216,780	2,103,893	1,159,152	5,479,825	10,709	11,015	11,040	10,894
COSTS \$	253,093,412	248,610,039	113,443,086	615,146,537	1,222,674	1,301,623	1,080,410	1,222,955
WELLS	29	174	78	281				
FOOTAGE	382,742	2,360,962	1,074,155	3,817,859	13,198	13,569	13,771	13,587
COSTS \$	63,103,209	419,055,133	162,291,462	644,449,804	2,175,973	2,408,363	2,080,660	2,293,416
WELLS	10	127	43	180				
FOOTAGE	164,924	2,054,272	684,670	2,903,866	16,492	16,175	15,923	16,133
COSTS \$	58,671,454	580,659,223	138,302,555	777,633,232	5,867,146	4,572,120	3,216,339	4,320,185
WELLS	1	26	8	35				
FOOTAGE	17,731	481,086	147,993	646,810	17,731	18,503	18,499	18,480
COSTS \$	6,696,705	170,155,989	37,578,274	214,430,968	6,696,705	6,544,461	4,697,285	6,126,599
WELLS	--	9	3	12				
FOOTAGE	--	198,695	72,026	270,721	--	22,077	24,009	22,560
COSTS \$	--	80,098,070	33,308,152	113,406,222	--	8,899,786	11,102,717	9,450,519
TOTAL WELLS	6,446	2,286	2,907	11,639				
TOTAL FOOTAGE	29,082,752	14,704,939	14,121,479	57,909,170	4,512	6,433	4,858	4,975
TOTAL COSTS \$	2,225,823,585	2,014,667,479	1,003,387,708	5,243,878,772	345,303	881,307	345,163	450,544

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

TEXAS - TOTAL

Table 35

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	1,498	76	748	2,322				
FOOTAGE	1,134,977	63,894	571,842	1,770,713				
COSTS \$	45,713,747	4,133,644	19,504,386	69,351,777	758	341	764	763
					30,517	54,390	26,075	29,867
WELLS	2,095	196	1,005	3,296				
FOOTAGE	3,805,468	371,049	1,805,787	5,982,304				
COSTS \$	168,719,577	22,137,704	46,253,159	237,110,440	1,816	1,893	1,797	1,815
					80,534	112,947	46,023	71,939
WELLS	2,374	324	815	3,513				
FOOTAGE	7,476,838	1,031,024	2,584,061	11,091,923				
COSTS \$	404,724,791	56,641,612	93,812,125	555,178,528	3,149	3,182	3,171	3,157
					170,482	174,820	115,107	158,035
WELLS	2,067	508	1,223	3,798				
FOOTAGE	9,235,024	2,235,041	5,405,701	16,875,766				
COSTS \$	487,963,237	123,695,755	191,496,171	803,155,163	4,468	4,400	4,420	4,443
					236,073	243,496	156,579	211,468
WELLS	2,748	987	1,763	5,498				
FOOTAGE	16,954,828	6,141,288	10,719,419	33,815,535				
COSTS \$	1,090,717,395	467,142,311	513,587,189	2,071,446,895	6,170	6,222	6,080	6,151
					396,913	473,295	291,314	376,764
WELLS	2,453	921	1,089	4,463				
FOOTAGE	21,120,478	8,039,352	9,323,503	38,483,333				
COSTS \$	1,787,438,855	877,561,299	751,992,860	3,416,993,014	8,610	8,729	8,562	8,623
					728,675	952,835	690,535	765,627
WELLS	420	778	466	1,664				
FOOTAGE	4,566,723	8,564,911	5,139,942	18,271,576				
COSTS \$	514,199,826	1,357,676,918	643,560,876	2,515,437,620	10,873	11,009	11,030	10,981
					1,224,285	1,745,086	1,381,032	1,511,681
WELLS	45	191	145	381				
FOOTAGE	593,857	2,578,856	1,945,706	5,118,419				
COSTS \$	107,291,990	606,678,222	418,845,099	1,132,815,311	13,197	13,502	13,419	13,434
					2,384,267	3,176,326	2,888,587	2,973,269
WELLS	7	60	64	131				
FOOTAGE	110,494	970,548	1,017,836	2,098,878				
COSTS \$	29,388,811	302,572,665	256,737,716	588,699,192	15,785	16,176	15,904	16,022
					4,198,402	5,042,878	4,011,527	4,493,887
WELLS	6	26	14	46				
FOOTAGE	110,812	483,922	260,822	855,556				
COSTS \$	41,241,727	166,179,189	158,396,051	365,816,967	18,469	18,612	18,630	18,599
					6,873,621	6,391,508	11,314,004	7,952,543
WELLS	1	19	7	27				
FOOTAGE	21,248	423,463	161,760	606,471				
COSTS \$	10,802,432	155,692,506	88,465,017	254,959,955	21,248	22,288	23,109	22,462
					10,802,432	8,194,343	12,637,860	9,442,961
TOTAL WELLS	13,714	4,086	7,339	25,139				
TOTAL FOOTAGE	65,130,747	30,903,348	38,936,379	134,970,474				
TOTAL COSTS \$	4,688,202,388	4,140,111,825	3,182,650,649	12,010,964,862	4,749	7,563	5,305	5,369
					341,855	1,013,243	433,663	477,782

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 36

TEXAS RRC DIST. 1

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	463	9	63	535				
FOOTAGE	343,589	6,618	59,532	409,739	742	735	945	766
COSTS \$	17,585,651	312,128	5,159,116	23,056,895	37,982	34,681	81,891	43,097
WELLS	526	14	91	631				
FOOTAGE	948,532	24,341	173,564	1,146,437	1,803	1,739	1,907	1,817
COSTS \$	44,493,638	1,216,079	6,730,661	52,440,378	84,589	86,863	73,963	83,107
WELLS	260	18	75	353				
FOOTAGE	736,476	56,734	232,820	1,026,030	2,833	3,152	3,104	2,907
COSTS \$	36,804,387	2,944,425	8,770,442	48,519,254	141,555	163,579	116,939	137,448
WELLS	46	8	56	110				
FOOTAGE	192,914	34,242	240,350	467,506	4,194	4,280	4,292	4,250
COSTS \$	11,202,675	1,823,812	11,441,336	24,467,823	243,536	227,977	204,310	222,435
WELLS	323	31	92	446				
FOOTAGE	2,158,369	186,732	558,610	2,903,711	6,682	6,024	6,072	6,511
COSTS \$	163,577,319	12,640,697	31,986,303	208,204,319	506,431	407,764	347,677	466,826
WELLS	239	3	48	295				
FOOTAGE	1,999,391	66,461	407,804	2,473,656	8,366	8,308	8,496	8,385
COSTS \$	168,360,957	6,212,736	31,228,753	205,802,446	704,439	776,592	650,599	697,635
WELLS	13	12	16	41				
FOOTAGE	138,428	130,578	173,566	442,572	10,648	10,882	10,848	10,794
COSTS \$	12,100,640	20,694,364	18,051,507	50,846,511	930,818	1,724,530	1,128,219	1,240,159
WELLS	--	4	2	6				
FOOTAGE	--	54,423	27,915	82,338	--	13,606	13,958	13,723
COSTS \$	--	11,606,627	3,780,231	15,386,858	--	2,901,657	1,890,116	2,564,476
WELLS	--	1	1	2				
FOOTAGE	--	15,012	15,467	30,479	--	15,012	15,467	15,240
COSTS \$	--	4,177,446	3,393,373	7,570,819	--	4,177,446	3,393,373	3,785,410
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	1	--	1				
FOOTAGE	--	20,600	--	20,600	--	20,600	--	20,600
COSTS \$	--	6,573,470	--	6,573,470	--	6,573,470	--	6,573,470
TOTAL WELLS	1,870	106	444	2,420				
TOTAL FOOTAGE	6,517,699	595,741	1,889,628	9,003,068	3,485	5,620	4,256	3,720
TOTAL COSTS \$	454,125,267	68,201,784	120,541,722	642,868,773	242,848	643,413	271,490	265,648

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

TEXAS RRC DIST. 2

Table 37

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	4	6	10				
FOOTAGE 0 - 1,249	--	3,997	5,000	8,997	--	999	833	900
COSTS \$	--	441,030	283,676	724,706	--	110,258	47,279	72,471
WELLS	4	10	12	26				
FOOTAGE 1,250 - 2,499	8,612	18,120	22,002	48,734	2,153	1,812	1,834	1,874
COSTS \$	512,195	1,374,545	872,789	2,759,529	128,049	137,455	72,732	106,136
WELLS	15	40	34	89				
FOOTAGE 2,500 - 3,749	51,228	131,272	112,080	294,580	3,415	3,282	3,296	3,310
COSTS \$	4,213,940	6,182,789	3,676,257	14,072,986	280,929	154,570	108,125	158,123
WELLS	26	73	63	162				
FOOTAGE 3,750 - 4,999	116,512	323,200	278,762	718,474	4,481	4,427	4,425	4,435
COSTS \$	5,987,990	14,606,899	9,818,205	30,413,094	230,307	200,095	155,845	187,735
WELLS	67	81	119	267				
FOOTAGE 5,000 - 7,499	398,362	472,511	706,267	1,577,140	5,946	5,833	5,935	5,907
COSTS \$	20,279,223	22,495,010	32,775,765	75,549,998	302,675	277,716	275,427	282,959
WELLS	22	58	127	207				
FOOTAGE 7,500 - 9,999	184,534	507,143	1,103,142	1,794,819	8,388	8,744	8,686	8,671
COSTS \$	16,385,979	42,416,226	79,529,537	138,331,742	744,817	731,314	626,217	668,269
WELLS	2	29	38	69				
FOOTAGE 10,000 - 12,499	21,551	323,808	420,732	766,091	10,776	11,166	11,072	11,103
COSTS \$	3,234,162	53,672,535	50,410,968	107,317,665	1,617,081	1,850,777	1,326,604	1,555,329
WELLS	--	24	12	36				
FOOTAGE 12,500 - 14,999	--	331,067	165,498	496,565	--	13,794	13,792	13,793
COSTS \$	--	71,439,818	29,670,465	101,110,283	--	2,976,659	2,472,539	2,808,619
WELLS	--	7	3	10				
FOOTAGE 15,000 - 17,499	--	113,279	48,094	161,373	--	16,183	16,031	16,137
COSTS \$	--	48,230,475	10,296,949	58,527,424	--	6,890,068	3,432,316	5,852,743
WELLS	--	1	--	1				
FOOTAGE 17,500 - 19,999	--	17,566	--	17,566	--	17,566	--	17,566
COSTS \$	--	4,021,203	--	4,021,203	--	4,021,203	--	4,021,203
WELLS	--	--	--	--				
FOOTAGE 20,000 & OVER	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	136	327	414	877				
TOTAL FOOTAGE	780,799	2,241,963	2,861,577	5,884,339	5,741	6,256	6,912	6,710
TOTAL COSTS \$	50,613,489	264,880,530	217,334,611	532,828,630	372,158	810,032	524,963	607,558

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

TEXAS RRC DIST. 3

Table 38

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	31	2	25	58				
FOOTAGE	26,311	1,442	12,593	40,346	849	721	504	696
COSTS \$	1,735,447	168,559	1,708,392	3,612,398	55,982	84,280	68,336	62,283
WELLS	46	2	7	55				
FOOTAGE	78,460	4,807	12,732	95,999	1,706	2,404	1,819	1,745
COSTS \$	4,837,935	276,597	829,790	5,944,322	105,173	138,299	118,541	108,079
WELLS	61	7	40	108				
FOOTAGE	208,714	21,291	128,755	358,760	3,422	3,042	3,219	3,322
COSTS \$	12,378,138	1,916,634	12,560,784	26,855,556	202,920	273,805	314,020	248,663
WELLS	45	10	52	107				
FOOTAGE	188,154	43,047	220,895	452,096	4,181	4,305	4,248	4,225
COSTS \$	11,068,169	2,685,800	13,553,759	27,307,728	245,959	268,580	260,649	255,212
WELLS	138	74	144	356				
FOOTAGE	895,091	465,884	926,153	2,287,128	6,486	6,296	6,432	6,425
COSTS \$	73,716,011	29,428,997	49,670,676	152,815,684	534,174	397,689	344,935	429,258
WELLS	1,013	149	233	1,395				
FOOTAGE	8,908,588	1,328,135	2,026,560	12,163,283	8,696	8,914	8,698	8,719
COSTS \$	832,466,059	142,387,754	134,521,091	1,109,374,904	821,783	955,623	577,344	795,251
WELLS	172	201	141	514				
FOOTAGE	1,841,316	2,229,528	1,540,313	5,611,157	10,705	11,092	10,924	10,917
COSTS \$	212,884,700	323,804,193	134,554,899	671,243,792	1,237,702	1,610,966	954,290	1,305,922
WELLS	10	29	24	63				
FOOTAGE	132,669	386,136	320,192	838,997	13,267	13,315	13,341	13,317
COSTS \$	28,065,639	85,520,581	41,706,186	155,292,406	2,806,564	2,948,986	1,737,758	2,464,959
WELLS	3	10	20	33				
FOOTAGE	48,045	159,400	317,583	525,028	16,015	15,940	15,879	15,910
COSTS \$	15,936,364	52,376,387	70,737,392	139,050,143	5,312,122	5,237,639	3,536,870	4,213,641
WELLS	--	2	3	5				
FOOTAGE	--	36,571	53,754	90,325	--	18,286	17,918	18,065
COSTS \$	--	11,950,186	19,450,939	31,401,125	--	5,975,093	6,483,647	6,280,225
WELLS	1	3	3	7				
FOOTAGE	21,248	63,554	66,629	151,431	21,248	21,185	22,210	21,633
COSTS \$	10,802,432	43,595,514	43,971,819	98,369,765	10,802,432	14,531,838	14,657,273	14,052,824
TOTAL WELLS	1,520	489	692	2,701				
TOTAL FOOTAGE	12,248,596	4,739,795	5,626,159	22,614,550	8,058	9,693	8,130	8,373
TOTAL COSTS \$	1,203,890,894	694,111,202	523,265,727	2,421,267,823	792,034	1,419,450	756,164	896,434

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 39

TEXAS RRC DIST. 4

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	7	8	7	22				
FOOTAGE	2,793	7,302	4,469	14,564				
COSTS \$	252,972	698,262	254,515	1,205,749	399	913	638	662
					36,139	87,283	36,359	54,807
WELLS	15	30	22	67				
FOOTAGE	29,270	60,706	45,398	135,374				
COSTS \$	1,957,014	4,518,717	1,725,735	8,201,466	1,951	2,024	2,064	2,021
					130,468	150,624	78,443	122,410
WELLS	28	24	46	98				
FOOTAGE	88,807	74,162	145,751	308,720				
COSTS \$	5,201,388	4,815,848	5,251,360	15,268,596	3,172	3,090	3,169	3,150
					185,764	200,660	114,160	155,802
WELLS	20	19	35	74				
FOOTAGE	85,986	83,129	148,329	317,444				
COSTS \$	5,102,938	6,387,997	6,109,128	17,600,063	4,299	4,375	4,238	4,290
					255,147	336,210	174,547	237,839
WELLS	69	176	169	414				
FOOTAGE	416,215	1,087,939	1,033,860	2,538,014				
COSTS \$	25,042,344	78,376,647	55,238,775	158,657,766	6,032	6,181	6,118	6,130
					362,933	445,322	326,857	383,231
WELLS	39	220	150	409				
FOOTAGE	318,581	1,913,089	1,276,400	3,508,070				
COSTS \$	24,460,069	215,862,952	102,617,366	342,940,387	8,169	8,696	8,509	8,577
					627,181	981,195	684,116	838,485
WELLS	3	126	67	196				
FOOTAGE	32,599	1,376,889	732,573	2,142,061				
COSTS \$	4,174,206	240,081,787	99,157,909	343,413,902	10,866	10,928	10,934	10,929
					1,391,402	1,905,411	1,479,969	1,752,112
WELLS	3	50	11	64				
FOOTAGE	39,260	680,156	148,199	867,615				
COSTS \$	12,134,030	173,659,083	28,321,613	214,114,726	13,087	13,603	13,473	13,556
					4,044,677	3,473,182	2,574,692	3,345,543
WELLS	--	8	12	20				
FOOTAGE	--	128,178	189,715	317,893				
COSTS \$	--	41,593,868	41,812,510	83,406,378	--	16,022	15,810	15,895
					--	5,199,234	3,484,376	4,170,319
WELLS	--	4	3	7				
FOOTAGE	--	73,651	57,480	131,131				
COSTS \$	--	37,344,134	35,039,430	72,383,564	--	18,413	19,160	18,733
					--	9,336,034	11,679,810	10,340,509
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--				
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	184	665	522	1,371				
TOTAL FOOTAGE	1,013,511	5,485,201	3,782,174	10,280,886				
TOTAL COSTS \$	78,324,961	803,339,295	375,528,341	1,257,192,597	5,508	8,248	7,246	7,499
					425,679	1,208,029	719,403	916,990

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 40

TEXAS RRC DIST. 5

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	179	4	42	225				
FOOTAGE	160,323	4,218	41,534	206,075	896	1,055	989	916
COSTS \$	4,996,307	106,418	312,670	5,415,395	27,912	26,605	7,445	24,068
WELLS	26	2	23	51				
FOOTAGE	40,203	2,688	39,610	82,501	1,546	1,344	1,722	1,618
COSTS \$	1,165,611	63,193	625,239	1,854,043	44,831	31,597	27,184	36,354
WELLS	3	--	14	17				
FOOTAGE	9,570	--	46,106	55,676	3,190	--	3,293	3,275
COSTS \$	491,099	--	1,325,040	1,816,139	163,700	--	94,646	106,832
WELLS	3	1	12	16				
FOOTAGE	13,344	3,755	52,704	69,803	4,448	3,755	4,392	4,363
COSTS \$	466,864	125,567	2,127,168	2,719,599	155,621	125,567	177,264	169,975
WELLS	18	11	16	45				
FOOTAGE	119,821	73,624	99,528	292,973	6,657	6,693	6,221	6,511
COSTS \$	8,705,803	3,985,143	5,567,632	18,258,578	483,656	362,286	347,977	405,746
WELLS	32	10	46	88				
FOOTAGE	293,577	91,819	392,652	778,048	9,174	9,192	8,536	8,841
COSTS \$	29,625,053	9,089,188	35,688,554	74,402,795	925,783	908,919	775,838	845,486
WELLS	24	74	21	119				
FOOTAGE	248,657	847,246	230,538	1,326,441	10,361	11,449	10,978	11,147
COSTS \$	25,204,700	129,908,536	24,537,701	179,650,937	1,050,196	1,755,521	1,168,462	1,509,672
WELLS	1	39	16	56				
FOOTAGE	12,750	514,112	213,432	740,294	12,750	13,182	13,340	13,220
COSTS \$	2,702,862	89,800,067	27,688,252	120,191,181	2,702,862	2,302,566	1,730,516	2,146,271
WELLS	1	11	4	16				
FOOTAGE	15,627	173,746	61,598	250,971	15,627	15,795	15,400	15,686
COSTS \$	3,906,750	49,209,716	12,610,499	65,726,965	3,906,750	4,473,611	3,152,625	4,107,935
WELLS	1	--	--	1				
FOOTAGE	17,600	--	--	17,600	17,600	--	--	17,600
COSTS \$	5,711,292	--	--	5,711,292	5,711,292	--	--	5,711,292
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	288	152	194	634				
TOTAL FOOTAGE	931,472	1,711,208	1,177,702	3,820,382	3,234	11,258	6,071	6,026
TOTAL COSTS \$	82,976,341	282,287,828	110,482,755	475,746,924	288,112	1,857,157	569,499	750,390

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 41

TEXAS RRC DIST. 6

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	31	--	8	39				
FOOTAGE	13,470	--	5,764	19,234	435	--	721	493
COSTS \$	1,234,704	--	392,877	1,627,581	39,829	--	49,110	41,733
WELLS	9	--	11	20				
FOOTAGE	18,273	--	21,288	39,561	2,030	--	1,935	1,978
COSTS \$	1,534,379	--	846,148	2,380,527	170,487	--	76,923	119,026
WELLS	14	2	16	32				
FOOTAGE	48,651	6,314	53,725	108,690	3,475	3,157	3,358	3,397
COSTS \$	2,778,429	263,911	2,055,017	5,097,357	198,459	131,956	128,439	159,292
WELLS	120	1	22	143				
FOOTAGE	536,452	3,800	96,397	636,649	4,470	3,800	4,382	4,452
COSTS \$	25,676,854	218,929	4,109,757	30,005,540	213,974	218,929	186,807	209,829
WELLS	66	45	50	161				
FOOTAGE	382,592	304,888	315,245	1,002,725	5,797	6,775	6,305	6,228
COSTS \$	21,571,229	23,286,464	19,224,597	64,082,290	326,837	517,477	384,492	398,027
WELLS	79	173	70	322				
FOOTAGE	653,881	1,566,318	600,273	2,820,472	8,277	9,054	8,575	8,759
COSTS \$	51,835,311	174,851,367	44,537,194	271,223,872	656,143	1,010,702	636,246	842,310
WELLS	26	201	34	261				
FOOTAGE	282,488	2,170,378	375,180	2,828,046	10,865	10,798	11,035	10,835
COSTS \$	30,819,790	270,048,950	43,814,032	344,682,772	1,185,377	1,343,527	1,288,648	1,320,624
WELLS	2	10	9	21				
FOOTAGE	27,240	135,291	118,690	281,221	13,620	13,529	13,188	13,391
COSTS \$	4,515,000	29,001,955	17,780,122	51,297,077	2,257,500	2,900,196	1,975,569	2,442,718
WELLS	--	1	--	1				
FOOTAGE	--	15,600	--	15,600	--	15,600	--	15,600
COSTS \$	--	3,669,258	--	3,669,258	--	3,669,258	--	3,669,258
WELLS	--	--	2	2				
FOOTAGE	--	--	38,780	38,780	--	--	19,390	19,390
COSTS \$	--	--	26,741,568	26,741,568	--	--	13,370,784	13,370,784
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	347	433	222	1,002				
TOTAL FOOTAGE	1,963,047	4,202,589	1,625,342	7,790,978	5,657	9,706	7,321	7,775
TOTAL COSTS \$	139,965,696	501,340,834	159,501,312	800,807,842	403,359	1,157,831	718,474	799,209

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

TEXAS RRC DIST. 7B

Table 42

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	280	38	257	575				
FOOTAGE	183,250	32,317	179,302	394,869	654	850	698	687
COSTS \$	8,678,052	2,008,844	4,637,023	15,323,919	30,993	52,864	18,043	26,650
WELLS	344	76	375	795				
FOOTAGE	622,744	137,960	680,489	1,441,193	1,810	1,815	1,815	1,813
COSTS \$	20,901,170	6,949,439	17,223,304	45,073,913	60,759	91,440	45,929	56,697
WELLS	536	165	379	1,080				
FOOTAGE	1,724,479	527,229	1,197,666	3,449,374	3,217	3,195	3,160	3,194
COSTS \$	73,389,460	26,209,894	33,736,556	133,335,910	136,921	158,848	89,015	123,459
WELLS	469	271	514	1,254				
FOOTAGE	2,044,346	1,184,145	2,278,818	5,507,309	4,359	4,370	4,433	4,392
COSTS \$	101,747,332	59,935,971	68,590,306	230,273,609	216,945	221,166	133,444	183,631
WELLS	289	83	342	714				
FOOTAGE	1,696,717	471,807	1,997,755	4,166,279	5,871	5,684	5,841	5,835
COSTS \$	99,288,925	26,492,399	71,033,040	195,814,364	340,100	319,186	207,699	274,250
WELLS	6	--	1	7				
FOOTAGE	47,960	--	7,550	55,510	7,993	--	7,550	7,930
COSTS \$	3,054,104	--	329,651	3,383,755	509,017	--	329,651	483,394
WELLS	--	--	1	1				
FOOTAGE	--	--	10,000	10,000	--	--	10,000	10,000
COSTS \$	--	--	667,126	667,126	--	--	667,126	667,126
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	1,924	633	1,869	4,426				
TOTAL FOOTAGE	6,319,496	2,353,458	6,351,580	15,024,534	3,285	3,718	3,398	3,395
TOTAL COSTS \$	306,059,043	121,596,547	196,217,006	623,872,596	159,074	192,096	104,985	140,956

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

TEXAS RRC DIST. 7C

Table 43

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	10	5	25	40				
FOOTAGE	10,040	4,164	17,385	31,589	1,004	833	695	790
COSTS \$	656,262	192,106	1,168,131	2,016,499	65,626	38,421	46,725	50,412
WELLS	123	19	54	196				
FOOTAGE	270,268	33,236	94,480	397,984	2,197	1,749	1,750	2,031
COSTS \$	17,750,165	2,117,007	3,289,131	23,156,303	144,310	111,421	60,910	118,144
WELLS	207	10	33	250				
FOOTAGE	580,644	32,557	107,222	720,423	2,805	3,256	3,249	2,882
COSTS \$	36,379,117	2,001,949	3,649,291	42,030,257	175,745	200,185	110,585	168,121
WELLS	192	54	177	423				
FOOTAGE	832,864	242,386	780,749	1,855,999	4,338	4,489	4,411	4,382
COSTS \$	49,254,545	13,407,352	27,393,503	90,055,400	256,534	248,284	154,766	212,897
WELLS	294	193	171	658				
FOOTAGE	1,905,663	1,250,560	1,045,329	4,201,552	6,482	6,480	6,113	6,385
COSTS \$	118,426,286	65,773,795	47,617,880	231,817,961	402,311	340,797	278,467	352,307
WELLS	238	121	56	415				
FOOTAGE	1,996,816	1,027,283	470,926	3,495,025	8,390	8,490	8,409	8,422
COSTS \$	134,231,058	58,909,434	32,054,726	225,195,218	563,996	486,855	572,406	542,639
WELLS	23	18	5	46				
FOOTAGE	252,691	195,567	56,583	504,841	10,987	10,865	11,317	10,975
COSTS \$	23,855,570	20,759,539	6,245,880	50,860,989	1,037,199	1,153,308	1,249,176	1,105,674
WELLS	2	2	2	6				
FOOTAGE	26,400	27,459	27,754	81,613	13,200	13,730	13,877	13,602
COSTS \$	4,638,600	4,431,320	5,108,178	14,178,098	2,319,300	2,215,660	2,554,089	2,363,016
WELLS	--	1	1	2				
FOOTAGE	--	15,713	15,038	31,038	--	15,713	15,325	15,519
COSTS \$	--	2,854,912	3,179,081	6,033,993	--	2,854,912	3,179,081	3,016,997
WELLS	--	1	--	1				
FOOTAGE	--	18,810	--	18,810	--	18,810	--	18,810
COSTS \$	--	6,583,500	--	6,583,500	--	6,583,500	--	6,583,500
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	1,089	424	524	2,037				
TOTAL FOOTAGE	5,875,386	2,847,735	2,615,753	11,338,874	5,395	6,716	4,992	5,566
TOTAL COSTS \$	385,191,603	177,030,814	129,705,801	691,928,218	353,711	417,526	247,530	339,680

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

TEXAS RRC DIST. 8

Table 44

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	10	3	15	28				
FOOTAGE	8,676	1,975	11,595	22,246	868	658	773	795
COSTS \$	1,499,152	159,804	1,716,797	3,375,753	149,915	53,268	114,453	120,563
WELLS	161	8	18	187				
FOOTAGE	299,905	14,327	33,041	347,273	1,863	1,791	1,836	1,857
COSTS \$	24,360,558	1,700,320	1,948,830	28,009,708	151,308	212,540	108,268	149,785
WELLS	464	25	41	530				
FOOTAGE	1,495,105	77,634	133,345	1,706,084	3,222	3,105	3,252	3,219
COSTS \$	90,615,667	4,707,416	8,774,403	104,097,486	195,292	188,297	214,010	196,410
WELLS	508	17	37	562				
FOOTAGE	2,298,533	72,439	164,089	2,535,061	4,525	4,261	4,435	4,511
COSTS \$	133,804,025	4,660,536	8,981,425	147,445,986	263,394	274,149	242,741	262,359
WELLS	302	12	54	368				
FOOTAGE	1,989,608	74,499	331,872	2,395,979	6,588	6,208	6,146	6,511
COSTS \$	120,029,506	5,037,451	20,371,601	145,488,558	397,449	423,954	377,252	395,349
WELLS	472	20	64	556				
FOOTAGE	4,186,859	166,612	545,100	4,898,571	8,870	8,331	8,517	8,810
COSTS \$	304,707,037	12,668,661	44,745,100	362,120,798	645,566	633,433	699,142	651,296
WELLS	74	4	34	112				
FOOTAGE	823,667	46,746	370,339	1,240,752	11,131	11,687	10,892	11,078
COSTS \$	94,050,784	8,167,340	39,771,897	141,970,021	1,270,957	2,036,835	1,169,762	1,267,590
WELLS	12	2	9	23				
FOOTAGE	156,951	28,357	117,912	303,220	13,079	14,179	13,101	13,183
COSTS \$	24,685,830	5,286,068	16,406,400	46,378,298	2,057,153	2,643,034	1,822,933	2,016,448
WELLS	2	13	7	22				
FOOTAGE	31,350	218,981	113,657	363,988	15,675	16,845	16,237	16,545
COSTS \$	5,257,426	60,393,548	25,596,367	91,247,341	2,628,713	4,645,658	3,656,624	4,147,607
WELLS	4	14	1	19				
FOOTAGE	74,782	264,150	17,850	356,782	18,696	18,868	17,850	18,778
COSTS \$	29,967,108	87,660,243	4,722,991	122,350,342	7,491,777	6,261,446	4,722,991	6,439,492
WELLS	--	13	4	17				
FOOTAGE	--	299,009	95,131	394,140	--	23,001	23,783	23,185
COSTS \$	--	91,978,460	44,493,198	136,471,658	--	7,075,266	11,123,300	8,027,745
TOTAL WELLS	2,009	131	284	2,424				
TOTAL FOOTAGE	11,365,436	1,264,729	1,933,931	14,564,096	5,657	9,654	6,810	6,008
TOTAL COSTS \$	828,977,093	282,449,847	217,529,009	1,328,955,949	412,632	2,156,106	765,947	548,249

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

TEXAS RRC DIST. 8A

Table 45

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	--	8	8				
FOOTAGE	--	--	2,850	2,850	--	--	356	356
COSTS \$	--	--	295,453	295,453	--	--	36,932	36,932
WELLS	101	--	9	110				
FOOTAGE	178,111	--	16,075	194,186	1,763	--	1,786	1,765
COSTS \$	8,727,893	--	1,141,922	9,869,815	86,415	--	126,880	89,726
WELLS	234	2	24	260				
FOOTAGE	747,305	6,710	79,297	833,312	3,194	3,355	3,304	3,205
COSTS \$	39,340,448	1,533,152	4,508,408	45,382,008	168,122	766,576	187,850	174,546
WELLS	320	2	56	378				
FOOTAGE	1,495,067	9,708	248,261	1,753,036	4,672	4,854	4,433	4,638
COSTS \$	77,656,580	941,919	14,224,434	92,822,933	242,677	470,960	254,008	245,563
WELLS	656	12	156	824				
FOOTAGE	3,802,825	73,736	966,977	4,843,538	5,797	6,145	6,199	5,878
COSTS \$	238,016,878	6,340,454	52,648,176	297,005,508	362,831	528,371	337,488	360,444
WELLS	169	--	146	315				
FOOTAGE	1,407,478	--	1,222,379	2,629,857	8,328	--	8,372	8,349
COSTS \$	104,770,602	--	69,969,511	174,740,113	619,944	--	479,243	554,731
WELLS	45	--	59	104				
FOOTAGE	513,344	--	670,487	1,183,831	11,408	--	11,364	11,383
COSTS \$	49,709,350	--	52,265,660	101,975,010	1,104,652	--	885,859	980,529
WELLS	11	--	21	32				
FOOTAGE	145,861	--	271,696	417,557	13,260	--	12,938	13,049
COSTS \$	15,985,907	--	25,385,037	41,370,944	1,453,264	--	1,208,811	1,292,842
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	1,536	16	479	2,031				
TOTAL FOOTAGE	8,289,991	90,154	3,478,022	11,858,167	5,397	5,635	7,261	5,839
TOTAL COSTS \$	534,207,658	8,815,525	220,438,601	763,461,784	347,791	550,970	460,206	375,904

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

TEXAS RRC DIST. 9

Table 46

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	487	3	289	779				
FOOTAGE	386,525	1,861	229,392	617,778	794	620	794	793
COSTS \$	9,075,200	46,493	2,358,629	11,480,322	18,635	15,498	8,161	14,737
WELLS	676	2	370	1,048				
FOOTAGE	1,167,205	4,026	640,382	1,811,613	1,727	2,013	1,731	1,729
COSTS \$	35,463,365	119,459	8,020,324	43,603,148	52,461	59,730	21,677	41,606
WELLS	108	2	91	201				
FOOTAGE	332,982	6,983	277,733	617,698	3,083	3,492	3,052	3,073
COSTS \$	12,030,323	331,890	5,562,318	17,924,531	111,392	165,945	61,124	89,177
WELLS	309	48	195	552				
FOOTAGE	1,395,262	217,774	877,826	2,490,862	4,515	4,537	4,502	4,512
COSTS \$	63,540,004	12,073,304	21,771,627	97,384,935	205,631	251,527	111,649	176,422
WELLS	461	202	398	1,061				
FOOTAGE	2,743,305	1,226,042	2,388,129	6,357,476	5,951	6,070	6,000	5,992
COSTS \$	157,245,876	81,912,298	82,154,566	321,312,740	341,097	405,506	206,419	302,840
WELLS	38	10	55	103				
FOOTAGE	316,586	83,765	469,882	870,233	8,331	8,377	8,543	8,449
COSTS \$	26,764,813	7,151,145	23,910,330	57,826,288	704,337	715,115	434,733	561,420
WELLS	1	--	--	1				
FOOTAGE	11,990	--	--	11,990	11,990	--	--	11,990
COSTS \$	2,474,353	--	--	2,474,353	2,474,353	--	--	2,474,353
WELLS	2	--	1	3				
FOOTAGE	25,745	--	13,500	39,245	12,873	--	13,500	13,082
COSTS \$	7,800,420	--	3,684,066	11,484,486	3,900,210	--	3,684,066	3,823,162
WELLS	1	--	--	1				
FOOTAGE	15,472	--	--	15,472	15,472	--	--	15,472
COSTS \$	4,288,271	--	--	4,288,271	4,288,271	--	--	4,288,271
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	2,083	267	1,399	3,749				
TOTAL FOOTAGE	6,395,072	1,540,451	4,896,844	12,832,367	3,070	5,769	3,500	3,423
TOTAL COSTS \$	318,682,625	101,634,589	147,461,860	567,779,074	152,992	380,654	105,405	151,448

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 47

TEXAS RRC DIST. 10

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY H/LES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	--	2	2				
FOOTAGE	--	--	1,334	1,334	--	--	667	667
COSTS \$	--	--	125,761	125,761	--	--	62,881	62,881
WELLS	64	33	12	109				
FOOTAGE	143,885	70,838	24,644	239,367	2,248	2,147	2,054	2,196
COSTS \$	7,015,654	3,802,348	1,814,662	12,632,664	109,620	115,223	151,222	115,896
WELLS	444	23	22	494				
FOOTAGE	1,452,877	86,973	69,561	1,609,411	3,272	3,106	3,162	3,258
COSTS \$	91,102,395	4,836,337	3,942,249	99,880,981	205,186	172,726	179,193	202,188
WELLS	9	--	2	11				
FOOTAGE	35,590	--	9,850	45,440	3,954	--	4,925	4,131
COSTS \$	2,455,261	--	384,889	2,840,150	272,807	--	192,445	253,195
WELLS	61	23	34	118				
FOOTAGE	420,791	160,779	227,507	809,077	6,898	6,990	6,691	6,857
COSTS \$	30,606,742	12,019,332	15,493,760	58,119,834	501,750	522,580	455,699	492,541
WELLS	91	106	44	241				
FOOTAGE	775,984	891,135	372,346	2,039,465	8,527	8,407	8,462	8,463
COSTS \$	58,789,521	61,881,355	22,700,146	143,371,022	646,039	583,786	515,912	594,901
WELLS	31	65	17	113				
FOOTAGE	333,158	714,740	187,495	1,235,393	10,747	10,996	11,029	10,933
COSTS \$	33,281,703	67,066,811	16,184,141	116,532,655	1,073,603	1,031,797	952,008	1,031,262
WELLS	1	16	8	25				
FOOTAGE	13,685	222,383	112,026	348,094	13,685	13,899	14,003	13,924
COSTS \$	218,214	33,555,326	12,548,530	46,322,070	218,214	2,097,208	1,568,566	1,852,883
WELLS	--	7	10	17				
FOOTAGE	--	113,752	159,801	273,553	--	16,250	15,980	16,091
COSTS \$	--	26,319,941	29,650,288	55,970,229	--	3,759,992	2,965,029	3,292,367
WELLS	1	4	1	6				
FOOTAGE	18,430	73,174	17,605	109,209	18,430	18,294	17,605	18,202
COSTS \$	5,563,327	18,619,923	3,178,553	27,361,803	5,563,327	4,654,981	3,178,553	4,560,301
WELLS	--	2	--	2				
FOOTAGE	--	40,300	--	40,300	--	20,150	--	20,150
COSTS \$	--	13,545,062	--	13,545,062	--	6,772,531	--	6,772,531
TOTAL WELLS	702	284	152	1,138				
TOTAL FOOTAGE	3,194,400	2,374,074	1,182,169	6,750,643	4,550	8,359	7,777	5,932
TOTAL COSTS \$	229,032,817	241,646,435	106,022,979	576,702,231	326,258	850,868	697,520	506,768

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

TEXAS - OFFSHORE

Table 48

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	--	1	1				
FOOTAGE	--	--	1,092	1,092	--	--	1,092	1,092
COSTS \$	--	--	1,091,346	1,091,346	--	--	1,091,346	1,091,346
WELLS	--	--	1	1				
FOOTAGE	--	--	2,082	2,082	--	--	2,082	2,082
COSTS \$	--	--	1,184,624	1,184,624	--	--	1,184,624	1,184,624
WELLS	--	1	--	1				
FOOTAGE	--	3,165	--	3,165	--	3,165	--	3,165
COSTS \$	--	897,467	--	897,467	--	897,467	--	897,467
WELLS	--	4	2	6				
FOOTAGE	--	17,416	8,671	26,087	--	4,354	4,336	4,348
COSTS \$	--	6,827,669	2,990,634	9,818,303	--	1,706,917	1,495,317	1,636,384
WELLS	4	44	18	66				
FOOTAGE	25,469	292,287	122,187	439,943	6,367	6,643	6,788	6,566
COSTS \$	15,211,253	99,303,624	29,804,418	144,319,295	3,802,813	2,256,901	1,655,801	2,186,656
WELLS	15	46	49	110				
FOOTAGE	130,243	397,592	428,489	956,324	8,683	8,643	8,745	8,694
COSTS \$	31,988,292	146,130,481	130,160,901	308,279,674	2,132,553	3,176,750	2,656,345	2,802,543
WELLS	8	48	33	87				
FOOTAGE	66,834	529,431	372,136	968,401	11,139	11,030	11,277	11,131
COSTS \$	22,409,868	223,492,863	157,899,156	403,801,887	3,734,978	4,656,102	4,784,823	4,641,401
WELLS	1	15	30	46				
FOOTAGE	13,296	199,472	408,892	621,660	13,296	13,298	13,630	13,514
COSTS \$	6,545,488	102,377,377	206,766,019	315,688,884	6,545,488	6,825,159	6,892,201	6,862,802
WELLS	--	1	8	7				
FOOTAGE	--	16,987	96,596	113,483	--	16,887	16,099	16,212
COSTS \$	--	13,747,114	59,461,257	73,208,371	--	13,747,114	9,910,210	10,458,339
WELLS	--	--	6	6				
FOOTAGE	--	--	75,353	75,353	--	--	18,838	18,838
COSTS \$	--	--	69,262,570	69,262,570	--	--	17,315,642	17,315,642
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	26	159	144	329				
TOTAL FOOTAGE	235,842	1,456,250	1,515,498	3,207,590	9,071	9,159	10,524	9,750
TOTAL COSTS \$	76,154,901	592,776,595	658,620,925	1,327,552,421	2,929,035	3,728,155	4,573,757	4,035,114

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 49

UTAH

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	2	--	11	13				
FOOTAGE	631	--	6,756	7,387	316	--	614	568
COSTS \$	60,616	--	866,547	927,163	30,308	--	78,777	71,320
WELLS	9	8	11	28				
FOOTAGE	15,677	13,982	18,456	48,115	1,742	1,748	1,678	1,718
COSTS \$	1,227,502	890,417	1,474,583	3,592,502	136,389	111,302	134,053	128,304
WELLS	6	13	22	41				
FOOTAGE	18,604	40,153	67,947	126,704	3,101	3,089	3,089	3,090
COSTS \$	1,441,543	4,019,893	10,969,462	16,430,898	240,257	309,223	498,612	400,754
WELLS	7	8	13	26				
FOOTAGE	34,063	27,356	58,582	120,501	4,866	4,643	4,506	4,635
COSTS \$	4,197,454	2,745,326	9,604,821	16,547,601	599,636	457,554	738,832	636,446
WELLS	117	79	72	268				
FOOTAGE	667,731	512,383	440,140	1,620,254	5,707	6,486	6,113	6,046
COSTS \$	67,579,570	50,338,004	51,786,673	169,704,247	577,603	637,190	719,259	633,225
WELLS	16	34	18	68				
FOOTAGE	140,991	285,055	156,170	582,216	8,812	8,384	8,676	8,562
COSTS \$	22,241,111	40,494,002	38,229,468	100,964,581	1,390,070	1,191,000	2,123,359	1,484,773
WELLS	19	8	21	45				
FOOTAGE	210,276	52,500	240,582	503,358	11,067	10,500	11,456	11,186
COSTS \$	32,879,167	9,246,534	88,634,470	130,760,171	1,730,483	1,349,307	4,220,689	2,909,782
WELLS	16	2	3	21				
FOOTAGE	211,783	26,987	39,881	278,651	13,236	13,494	13,294	13,269
COSTS \$	60,602,038	13,492,305	15,712,120	89,806,463	3,787,628	6,746,153	5,237,374	4,276,498
WELLS	8	2	6	16				
FOOTAGE	126,729	32,444	97,837	257,010	15,841	16,222	16,306	16,063
COSTS \$	33,881,717	13,541,579	50,821,894	98,245,190	4,235,215	6,770,790	8,470,316	6,140,325
WELLS	--	--	4	4				
FOOTAGE	--	--	74,967	74,967	--	--	18,742	18,742
COSTS \$	--	--	38,543,950	38,543,950	--	--	9,635,988	9,635,988
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	200	149	181	530				
TOTAL FOOTAGE	1,426,485	991,360	1,201,318	3,619,163	7,132	6,653	6,637	6,829
TOTAL COSTS \$	224,110,718	134,768,060	306,643,988	665,522,766	1,120,554	904,484	1,694,166	1,255,703

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

WYOMING

Table 50

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		103	6	37	146				
FOOTAGE	0 - 1,249	68,785	5,570	25,875	100,230	668	928	699	687
COSTS \$		7,031,517	412,606	1,979,640	9,423,763	68,267	68,768	53,504	64,546
WELLS		47	3	36	86				
FOOTAGE	1,250 - 2,499	85,391	6,449	62,171	154,011	1,817	2,150	1,727	1,791
COSTS \$		7,144,369	634,161	4,990,435	12,768,965	152,008	211,387	138,623	148,476
WELLS		82	6	59	147				
FOOTAGE	2,500 - 3,749	253,386	20,586	193,227	467,199	3,090	3,431	3,275	3,178
COSTS \$		24,420,699	2,300,142	17,042,344	43,763,185	297,813	383,357	288,853	297,709
WELLS		90	7	60	157				
FOOTAGE	3,750 - 4,999	404,023	30,736	263,284	698,043	4,489	4,391	4,388	4,446
COSTS \$		42,238,606	3,804,694	19,425,376	65,468,676	469,318	543,528	323,756	416,998
WELLS		248	21	173	442				
FOOTAGE	5,000 - 7,499	1,511,936	133,388	1,109,710	2,755,034	6,097	6,352	6,415	6,233
COSTS \$		105,480,970	17,479,513	85,622,737	208,583,220	425,327	832,358	494,929	471,908
WELLS		207	58	302	567				
FOOTAGE	7,500 - 9,999	1,836,340	513,937	2,612,966	4,963,243	8,871	8,861	8,652	8,754
COSTS \$		174,745,153	75,838,307	177,300,681	427,884,141	844,180	1,307,557	587,088	754,646
WELLS		80	57	110	247				
FOOTAGE	10,000 - 12,499	861,774	633,306	1,207,164	2,702,244	10,772	11,111	10,974	10,940
COSTS \$		118,526,677	126,124,853	118,222,516	362,874,046	1,481,584	2,212,717	1,074,750	1,469,126
WELLS		21	39	46	106				
FOOTAGE	12,500 - 14,999	281,068	515,242	614,814	1,411,124	13,384	13,211	13,366	13,312
COSTS \$		73,282,429	110,364,847	121,150,273	304,797,549	3,489,640	2,829,868	2,633,702	2,875,449
WELLS		3	14	10	27				
FOOTAGE	15,000 - 17,499	47,203	230,362	162,566	440,131	15,734	16,454	16,257	16,301
COSTS \$		18,340,628	118,298,785	83,258,913	219,898,326	6,113,543	8,449,913	8,325,892	8,144,383
WELLS		--	11	3	14				
FOOTAGE	17,500 - 19,999	--	205,793	56,046	261,839	--	18,708	18,682	18,703
COSTS \$		--	102,059,167	29,781,119	131,840,286	--	9,278,106	9,927,040	9,417,163
WELLS		--	1	--	1				
FOOTAGE	20,000 & OVER	--	20,170	--	20,170	--	20,170	--	20,170
COSTS \$		--	5,185,687	--	5,185,687	--	5,185,687	--	5,185,687
TOTAL WELLS		881	223	836	1,940				
TOTAL FOOTAGE		5,349,906	2,315,539	6,307,823	13,973,268	6,073	10,384	7,545	7,203
TOTAL COSTS \$		571,211,048	562,502,762	658,774,034	1,792,487,844	648,367	2,522,434	788,007	923,963

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

APPALACHIAN *

Table 51

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	989	104	43	1,136				
FOOTAGE	820,701	93,782	30,955	945,438	830	902	720	832
COSTS \$	27,144,628	4,555,641	1,091,982	32,792,251	27,447	43,804	25,395	28,866
WELLS	667	582	83	1,332				
FOOTAGE	1,158,345	1,127,404	159,299	2,445,048	1,737	1,937	1,919	1,836
COSTS \$	35,645,488	61,386,459	6,033,470	103,065,417	53,442	105,475	72,692	77,376
WELLS	941	1,531	166	2,638				
FOOTAGE	3,036,566	5,107,368	528,360	8,672,294	3,227	3,336	3,183	3,287
COSTS \$	105,322,286	200,731,041	15,763,489	321,816,816	111,926	131,111	94,961	121,993
WELLS	316	2,228	97	2,641				
FOOTAGE	1,365,918	9,375,669	419,311	11,160,898	4,323	4,208	4,323	4,226
COSTS \$	50,600,296	360,315,410	11,744,204	422,659,910	160,128	161,721	121,074	160,038
WELLS	174	933	53	1,160				
FOOTAGE	932,783	5,049,131	308,134	6,290,048	5,361	5,412	5,814	5,422
COSTS \$	36,462,332	187,650,010	10,041,656	234,153,998	209,554	201,125	189,465	201,857
WELLS	--	15	8	23				
FOOTAGE	--	126,738	70,747	197,485	--	8,449	8,843	8,586
COSTS \$	--	8,027,719	7,751,252	15,778,971	--	535,181	968,907	686,042
WELLS	--	2	--	2				
FOOTAGE	--	20,552	--	20,552	--	10,276	--	10,276
COSTS \$	--	2,751,734	--	2,751,734	--	1,375,867	--	1,375,867
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
TOTAL WELLS	3,087	5,395	450	8,932				
TOTAL FOOTAGE	7,314,313	20,900,644	1,516,806	29,731,763	2,369	3,874	3,371	3,329
TOTAL COSTS \$	255,175,030	825,418,014	52,426,053	1,133,019,097	82,661	152,997	116,502	126,849

* Includes New York, Ohio, Pennsylvania, and West Virginia

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

Table 52

OFFSHORE FED - TOTAL *

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
0 - 1,249	--	--	--	--	--	--	--	--
WELLS	--	--	2	2	--	--	--	--
FOOTAGE	--	--	3,070	3,070	--	--	1,535	1,535
COSTS \$	--	--	2,178,579	2,178,579	--	--	1,089,290	1,089,290
1,250 - 2,499	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
2,500 - 3,749	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
3,750 - 4,999	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
5,000 - 7,499	1	--	2	3	7,191	--	7,174	7,180
FOOTAGE	7,191	--	14,348	21,539	5,033,700	--	5,554,854	5,381,136
COSTS \$	5,033,700	--	11,109,707	16,143,407	5,033,700	--	5,554,854	5,381,136
7,500 - 9,999	--	--	7	7	--	--	8,284	8,284
FOOTAGE	--	--	57,988	57,988	--	--	6,497,881	6,497,881
COSTS \$	--	--	45,485,164	45,485,164	--	--	6,497,881	6,497,881
10,000 - 12,499	6	3	9	18	11,440	11,564	11,305	11,393
FOOTAGE	68,641	34,693	101,747	205,081	5,058,147	5,601,214	8,731,578	6,985,374
COSTS \$	30,348,381	16,803,640	78,584,198	125,736,719	5,058,147	5,601,214	8,731,578	6,985,374
12,500 - 14,999	--	3	6	9	--	14,371	14,030	14,143
FOOTAGE	--	43,112	84,179	127,291	--	7,110,740	10,338,424	9,262,529
COSTS \$	--	21,332,218	62,030,546	83,362,764	--	7,110,740	10,338,424	9,262,529
15,000 - 17,499	--	--	4	4	--	--	15,997	15,997
FOOTAGE	--	--	63,987	63,987	--	--	11,134,146	11,134,146
COSTS \$	--	--	44,736,585	44,736,585	--	--	11,134,146	11,134,146
17,500 - 19,999	--	--	2	2	--	--	17,941	17,941
FOOTAGE	--	--	35,881	35,881	--	--	16,803,675	16,803,675
COSTS \$	--	--	33,607,349	33,607,349	--	--	16,803,675	16,803,675
20,000 & OVER	--	--	2	2	--	--	21,725	21,725
FOOTAGE	--	--	43,450	43,450	--	--	9,860,587	9,860,587
COSTS \$	--	--	19,721,173	19,721,173	--	--	9,860,587	9,860,587
TOTAL WELLS	7	6	34	47	10,833	12,968	11,901	11,878
TOTAL FOOTAGE	75,832	77,905	404,650	558,287	5,054,655	6,355,977	8,748,627	7,893,016
TOTAL COSTS \$	35,382,581	38,135,858	297,453,301	370,971,740	5,054,655	6,355,977	8,748,627	7,893,016

* Includes Offshore Federal Waters-Atlantic Coast which is not shown separately.

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1981

OFFSHORE FED. - GULF NORTH

Table 53

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	--	--	--	--	--	--	--
FOOTAGE 0 - 1,249	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	2	2	--	--	--	--
FOOTAGE 1,250 - 2,499	--	--	3,070	3,070	--	--	1,535	1,535
COSTS \$	--	--	2,178,579	2,178,579	--	--	1,089,290	1,089,290
WELLS	--	--	--	--	--	--	--	--
FOOTAGE 2,500 - 3,749	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	--	--	--	--	--	--	--	--
FOOTAGE 3,750 - 4,999	--	--	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--	--	--
WELLS	1	--	2	3	7,191	--	7,174	7,180
FOOTAGE 5,000 - 7,499	7,191	--	14,348	21,539	5,033,700	--	5,554,854	5,381,136
COSTS \$	5,033,700	--	11,109,707	16,143,407	5,033,700	--	5,554,854	5,381,136
WELLS	--	--	6	6	--	--	8,279	8,279
FOOTAGE 7,500 - 9,999	--	--	49,676	49,676	--	--	8,279	8,279
COSTS \$	--	--	37,941,537	37,941,537	--	--	6,323,590	6,323,590
WELLS	6	3	9	18	11,440	11,564	11,305	11,393
FOOTAGE 10,000 - 12,499	68,641	34,693	101,747	205,081	5,058,147	5,601,214	8,731,578	6,985,374
COSTS \$	30,348,881	16,803,640	78,584,198	125,736,719	5,058,147	5,601,214	8,731,578	6,985,374
WELLS	--	3	5	8	--	14,371	14,012	14,147
FOOTAGE 12,500 - 14,999	--	43,112	70,061	113,173	--	7,110,740	9,668,986	8,709,643
COSTS \$	--	21,332,218	48,344,929	69,677,147	--	7,110,740	9,668,986	8,709,643
WELLS	--	--	2	2	--	--	15,866	15,866
FOOTAGE 15,000 - 17,499	--	--	31,732	31,732	--	--	15,866	15,866
COSTS \$	--	--	17,151,671	17,151,671	--	--	8,575,836	8,575,836
WELLS	--	--	1	1	--	--	18,128	18,128
FOOTAGE 17,500 - 19,999	--	--	18,128	18,128	--	--	18,128	18,128
COSTS \$	--	--	13,545,195	13,545,195	--	--	13,545,195	13,545,195
WELLS	--	--	2	2	--	--	21,725	21,725
FOOTAGE 20,000 & OVER	--	--	43,450	43,450	--	--	21,725	21,725
COSTS \$	--	--	19,721,173	19,721,173	--	--	9,860,587	9,860,587
TOTAL WELLS	7	6	29	42	10,833	12,968	11,456	11,568
TOTAL FOOTAGE	75,832	77,805	332,212	485,849	5,054,655	6,355,977	7,881,965	7,192,749
TOTAL COSTS \$	35,382,581	38,135,858	228,576,989	302,095,428	5,054,655	6,355,977	7,881,965	7,192,749

APPENDICES

JOINT ASSOCIATION SURVEY ON DRILLING COSTS—1981

CONFIDENTIAL

WELLS DRILLED, FOOTAGE, AND COST IN THE U.S.

CONFIDENTIAL

PAGE

OPERATOR NAME - WELL NUMBER - LEASE NAME ABC OIL COMPANY 1 J C KANE						STATE MONTANA		SHORE ON	OP CODE 999	WELL IDENTIFICATION NUMBER 25 017 23459 00 17	
TYPE EXP-DRY	OIL ZONES 0	GAS ZONES 0	DEPTH 3456	COMPLETION DATE 08/81	SECTION 031	TWP 15-N	RANGE 053-E	CDS	X COORD or LATITUDE		Y COORD or LONGITUDE
COUNTY NAME CUSTER				LOCATION 958 FNL 388 FWL					TOTAL COST		

OPERATOR NAME - WELL NUMBER - LEASE NAME ABC OIL COMPANY 3 HAYES						STATE MONTANA		SHORE ON	OP CODE 999	WELL IDENTIFICATION NUMBER 25 033 10432 00 17	
TYPE DEV-OIL	OIL ZONES 1	GAS ZONES 0	DEPTH 2335	COMPLETION DATE 04/81	SECTION 017	TWP 019-N	RANGE 044-E	CDS	X COORD or LATITUDE		Y COORD or LONGITUDE
COUNTY NAME GARFIELD				LOCATION 348 FSL 457 FWL					TOTAL COST		

OPERATOR NAME - WELL NUMBER - LEASE NAME ABC OIL COMPANY 2 B W BOWERS						STATE MONTANA		SHORE ON	OP CODE 999	WELL IDENTIFICATION NUMBER 25 083 22106 00 17	
TYPE DEV-DRY	OIL ZONES 0	GAS ZONES 0	DEPTH 10435	COMPLETION DATE 11/81	SECTION 004	TWP 025-N	RANGE 055-E	CDS	X COORD or LATITUDE		Y COORD or LONGITUDE
COUNTY NAME RICHLAND				LOCATION 120 FSL 234 FEL					TOTAL COST		

OPERATOR NAME - WELL NUMBER - LEASE NAME						STATE		SHORE	OP CODE	WELL IDENTIFICATION NUMBER	
TYPE	OIL ZONES	GAS ZONES	DEPTH	COMPLETION DATE	SECTION	TWP	RANGE	CDS	X COORD or LATITUDE		Y COORD or LONGITUDE
COUNTY NAME				LOCATION					TOTAL COST		

OPERATOR NAME - WELL NUMBER - LEASE NAME						STATE		SHORE	OP CODE	WELL IDENTIFICATION NUMBER	
TYPE	OIL ZONES	GAS ZONES	DEPTH	COMPLETION DATE	SECTION	TWP	RANGE	CDS	X COORD or LATITUDE		Y COORD or LONGITUDE
COUNTY NAME				LOCATION					TOTAL COST		

OPERATOR NAME - WELL NUMBER - LEASE NAME						STATE		SHORE	OP CODE	WELL IDENTIFICATION NUMBER	
TYPE	OIL ZONES	GAS ZONES	DEPTH	COMPLETION DATE	SECTION	TWP	RANGE	CDS	X COORD or LATITUDE		Y COORD or LONGITUDE
COUNTY NAME				LOCATION					TOTAL COST		

OPERATOR NAME - WELL NUMBER - LEASE NAME						STATE		SHORE	OP CODE	WELL IDENTIFICATION NUMBER	
TYPE	OIL ZONES	GAS ZONES	DEPTH	COMPLETION DATE	SECTION	TWP	RANGE	CDS	X COORD or LATITUDE		Y COORD or LONGITUDE
COUNTY NAME				LOCATION					TOTAL COST		

INDIVIDUAL SUBMITTING REPORT: _____
 TELEPHONE NUMBER: AC _____

INSTRUCTIONS AND DEFINITIONS FOR DRILLING COSTS

1. If a well shown on the computer listing was completed by you as operator in the survey year (whether actually drilled by you or drilled for you by a contractor), you only need to insert the total cost of the well as defined in Section 14 below.
2. Wells shown on the computer listing not actually completed by you during the calendar survey year should be deleted from the computer list. Please indicate the reason for the deletions.
3. If as operator, you completed wells in the calendar survey year not shown on the computer listing, such wells should be reported on the enclosed blank forms.
4. **WELLS TO BE REPORTED.** Report each domestic well completed by you as operator in the survey year (whether actually drilled by you or drilled for you by contractors). Report each well completed by you as operator regardless of the size of your working interest in the well. Do not report wells drilled by others in which you may have had only part of a working interest regardless of the size of such interest. Do not report wells started in the survey year or in prior years, but not completed as of December 31 of the survey year. Do not report wells reentered for completion at shallower depths, old wells drilled deeper, redrilled wells, old wells worked over, stratigraphic tests, core tests, or service wells (including input wells).
5. **SHORE.** Enter "OFF" if well is located offshore; enter "ON" if it is onshore. An offshore well is one which is bottomed at, or produces from, a point which lies seaward of the coastline. If a state agency uses a different basis for classifying onshore and offshore wells, the state classification should be used. In general, the term "coastline" means the line of ordinary low water along that portion of the coast which is in direct contact with the open sea or the line marking the seaward limit of inland waters. For purposes of the JAS, Cook Inlet (Alaska) is classified as "offshore."
6. **OP CODE.** Make no entry. The API will supply the operator code.
7. **WELL IDENTIFICATION NUMBER.** Enter the state designated API number if it is available. Where states do not assign API Well Numbers, or if you do not know the number, leave this item blank.
8. **TYPE.** Insert the classification for each well reported as either an exploratory (EXPL) or a development (DEV) well. Exploratory wells include new-field wildcats, new-pool wildcats, deeper-pool tests, shallower-pool tests, and outposts (extensions). Development wells include all wells drilled to produce oil or gas from pools discovered by previous drilling. (See attached diagram and definitions.) If your system of classification differs from that used by the API-AAPG, you may report wells on the basis of classification reflected in your accounts.

Subclassify all wells as either (1) oil wells, (2) gas wells, or (3) dry holes, e.g. "EXPL-OIL," "DEV-GAS," etc. An oil well is one which can produce hydrocarbons existing in the reservoir in liquid form. A gas well is one which can produce hydrocarbons existing initially in a gaseous phase in the reservoir. So-called gas condensate wells should be reported as gas wells. The state regulatory classification should be used, if available; if not available, use a classification by company engineers.

Count multiple completions as one well. (See Number 9, OIL ZONES, GAS ZONES., for a definition of a multiple completion.)

9. **OIL ZONES, GAS ZONES.** Enter the total number of oil zones and gas zones in the appropriate space.

As noted under Number 8, a multiple completion should be reported as one well. A multiple completion well is a well equipped to produce oil and/or gas separately from more than one reservoir. Such wells contain multiple strings of tubing or other equipment which permit production from the various completions to be measured and accounted for separately.

Report a multiple completion well as an oil well if oil is produced from at least one of several zones, even though gas and gas condensate may be produced from one or more zones in the same well. Report a multiple completion well as a gas well if oil is not produced from any of the several zones.

For a dry hole enter word "DRY."

10. **DEPTH.** Report for each well the total feet of penetration measured down the well bore. Include all plugged back footage, but exclude bypassed footage resulting from remedial sidetrack drilling operations. For offshore wells drilled from a platform or barge over water and the reference point is above water, the depth of the water is included in the total length of the well bore.
11. **COMPLETION DATE.** Enter month and year of completion.
12. **SECTION, TWP, RANGE.** Enter location data if appropriate for area.
13. **LOCATION.** Enter other available information that would be helpful in identifying well location.
14. **TOTAL COST.** Report the total cost (tangible and intangible) of each well completed by you as operator in the survey year (whether actually drilled by you or drilled for you by contractors). The total of such costs should be reported even though you as operator had only a part of a working interest in the well. Do not report the cost of wells drilled by others in which you had a working interest regardless of the size of such interest. The costs to be reported are those associated with wells which are completed during the survey year and the dollar amount to be reported is the accumulated cost of such wells from the time locations were made until the wells were completed as productive wells or abandoned after drilling was terminated because they were non-productive.

In general, the elements contributing to reported cost are the expenditures for drilling dry holes and productive wells and equipping new productive wells through the Christmas tree installation. More specifically, these cost elements are the costs of labor, materials, supplies, water, fuels, power, and direct overhead (i.e., field, district, and regional), for such operations as site preparation, road building, erecting and dismantling derricks and drilling rigs, drilling hole, running and cementing casing, hauling materials, etc. Include the total cost of water, if purchased, or cost of water well, if drilled and chargeable to oil or gas well drilling operations. Well costs also include machinery and tool charges and rentals, and depreciation charges, where appropriate, for rigs and other equipment and facilities which will be used in drilling more than one well. Deduct the condition value of materials salvaged after use where appropriate.

Do not report the cost of lease equipment such as artificial lift equipment and downhole lift equipment, flow lines, flow tanks, separators, etc., that are required for production. Do not reduce reported costs by test well, bottom hole, or dry hole contributions.

For offshore wells, include costs on fixed platforms and islands. Where facilities serve more than one well, the costs should be allocated to each well on the basis of the operator's best current estimate of the ultimate number of wells that will use the facility. Also, include cost expirations (depreciation or amortization) for company-owned mobile platforms, barges, and tenders.

AAPG and API Classification of Wells

OBJECTIVE OF DRILLING				INITIAL CLASSIFICATION ♦ WHEN DRILLING IS STARTED		FINAL CLASSIFICATION AFTER COMPLETION OR ABANDONMENT						
						SUCCESSFUL ♦♦♦		UNSUCCESSFUL ♦				
Drilling for a new field on a structure or in an environment never before productive				1. NEW-FIELD WILDCAT		NEW-FIELD DISCOVERY WILDCAT		DRY NEW-FIELD WILDCAT				
Drilling for a new pool on a structure or in a geological environment already productive	NEW POOL TESTS	Drilling outside limits of a proved area of pool		2. NEW-POOL (PAY) WILDCAT		NEW-POOL DISCOVERY WELLS (Sometimes extension wells)	NEW-POOL DISCOVERY WILDCAT (Sometimes an extension well)		DRY NEW-POOL WILDCAT			
		Drilling inside limits of proved area of pool	For a new pool below deepest proven pool	3. DEEPER POOL (PAY) TEST			DEEPER POOL DISCOVERY WELL	DRY NEW-POOL TESTS		DRY DEEPER POOL TEST		
			For a new pool above deepest proven pool	4. SHALLOWER POOL (PAY) TEST							SHALLOWER POOL DISCOVERY WELL	DRY SHALLOWER POOL TEST
Drilling for long extension of a partly developed pool				5. OUTPOST or EXTENSION TEST		EXTENSION WELL (Sometimes a new-pool discovery well)		DRY OUTPOST OR DRY EXTENSION TEST				
Drilling to exploit or develop a hydrocarbon accumulation discovered by previous drilling				6. DEVELOPMENT WELL		DEVELOPMENT WELL		DRY DEVELOPMENT WELL				

The diagram illustrates the classification of wells based on their location relative to hydrocarbon accumulations and the known production limits of a proved pool. The ground surface is represented by a horizontal line. Below it, a dashed line indicates the 'Known Production Limits of Proved Pool'. Several wells are shown as vertical lines with circles at the bottom. Well 1 is labeled 'NEW-FIELD WILDCAT' and is located outside the proved pool limits. Well 2 is labeled 'NEW-POOL (PAY) WILDCAT' and is also outside the proved pool limits. Well 3 is labeled 'DEEPER POOL (PAY) TEST' and is located within the proved pool limits, deeper than the known production limits. Well 4 is labeled 'SHALLOWER POOL (PAY) TEST' and is located within the proved pool limits, shallower than the known production limits. Well 5 is labeled 'OUTPOST or EXTENSION TEST' and is located outside the proved pool limits. Well 6 is labeled 'DEVELOPMENT WELL' and is located within the proved pool limits. The diagram also shows a 'STRUCTURE' indicated by a dashed line and a 'Known Production Limits of Proved Pool' indicated by a solid line.

LAKEE CLASSIFICATION OF WELLS, AS APPLIED BY CSD

Tests drilled with the intent of being completed as hydrocarbon producers if found

NEW FIELD WILDCAT. A new field wildcat is located far from producing pools, and on a structure which has not produced before. In regions where local structures has little or no control on accumulation, these holes are generally at least 2 miles from the nearest productive area. Distance, however, is not the determining factor. The classification is based on the degree of risk assumed by the operator, and his intention to test a structure or stratigraphic condition not previously proved productive.

NEW-POOL (PAY) WILDCAT. A new-pool wildcat is located to explore for new pools on a structure already producing, but off to one side of the presently producing area. In some regions where local structure is almost negligible as a control, exploration holes of this group may be called "near wildcats." Such will usually be less than 2 miles from the nearest productive area. Sometimes a new-pool wildcat may extend a pool already partly developed, if so its final classification is an Extension.

DEEPER-POOL (PAY) TEST. A deeper-pool test is an exploratory hole located within the productive area of a pool, or pools, already partly or wholly developed. It is drilled below the deepest such pool penetrated by it to explore for deeper unknown prospects. Sometimes such a hole extends a deeper pool which has been partly developed in another part of the field.

SHALLOWER-POOL (PAY) TEST. A shallower-pool test is exploratory only if drilled in search of some new productive reservoir, unknown but possibly suspected from data secured from other wells. The test must be located within the productive area of a pool, or pools, previously

developed. Sometimes such a test extends a shallower-pool partly developed elsewhere in the same field.

OUTPOST OR EXTENSION TEST. An outpost is located and drilled with the expectation of extending for a considerable distance the productive area of a partly developed pool. It is usually two or more locations distant from the nearest productive area. Sometimes an outpost discovers a new pool.

DEVELOPMENT WELL. A well drilled to exploit a hydrocarbon accumulation discovered by previous drilling.

Tests drilled without the intent of being completed for hydrocarbon production

STRATIGRAPHIC TEST. A drilling effort, geologically directed, to obtain information pertaining to a specific earth condition that might lead toward a possible accumulation of hydrocarbon. It must be drilled without the intention of being completed for hydrocarbon production. This classification includes tests identified as core tests by some operators.

SERVICE WELL. A well that is either drilled or completed for the purpose of supporting production of an existing field through observation, injection, water supply, etc.

MISCELLANEOUS. Any test drilled that does not fit one of the above classifications.

RECONCILIATION OF TOTAL 1981 U.S. WELLS AND FOOTAGE
QRDS vs. JAS

	Oil Wells		Gas Wells		Dry Holes		Total	
	No.	Footage	No.	Footage	No.	Footage	No.	Footage
QRDS-Exploratory Wells	2,219	13,267,311	2,366	15,729,426	10,583	60,090,485	15,168	89,087,222
QRDS-Development Wells	35,452	137,401,750	15,528	81,149,957	12,390	53,767,591	63,370	272,319,298
Total QRDS Wells	37,671	150,669,061	17,894	96,879,383	22,973	113,858,076	78,538	361,406,520
Adjustment Type I (Net)	- 472	+ 5,287,261	- 1,056	- 2,665,562	+ 993	+ 7,865,071	- 565	+ 10,486,770
Adjustment Type II (Net)	+ 1,526	+ 6,025,744	+ 695	+ 6,043,698	+ 622	+ 4,837,365	+ 2,843	+ 16,906,807
	<u>38,725</u>	<u>161,982,066</u>	<u>17,533</u>	<u>100,257,519</u>	<u>24,588</u>	<u>126,560,512</u>	<u>80,816</u>	<u>388,800,097</u>

Note: Adjustments Type I and Adjustments Type II are outlined on page 2.

SUMMARY OF SAMPLE DATA - 1981

EXPLORATORY WELLS

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS			AVERAGE DEPTH AND COST PER WELL		
	OIL WELLS	GAS WELLS	DRY HOLES	OIL	GAS	DRY
WELLS	18	--	78			
FOOTAGE	15,301	--	63,818	850	--	818
COSTS \$	856,378	--	8,767,297	47,577	--	112,401
WELLS	60	40	245			
FOOTAGE	106,638	81,469	466,457	1,777	2,037	1,904
COSTS \$	6,952,924	4,868,039	25,155,792	115,882	121,701	102,677
WELLS	70	75	468			
FOOTAGE	223,616	231,939	1,495,751	3,195	3,093	3,196
COSTS \$	13,611,856	14,449,896	71,009,898	194,455	192,665	151,731
WELLS	160	157	813			
FOOTAGE	706,336	691,834	3,583,896	4,415	4,407	4,408
COSTS \$	39,999,541	39,082,989	145,301,282	249,997	248,936	178,722
WELLS	235	217	1,032			
FOOTAGE	1,453,599	1,323,935	6,263,947	6,186	6,101	6,070
COSTS \$	123,649,440	111,301,829	387,400,152	526,168	512,912	375,388
WELLS	188	178	704			
FOOTAGE	1,625,369	1,551,159	6,084,926	8,646	8,714	8,643
COSTS \$	204,327,793	214,869,450	658,919,474	1,086,850	1,207,132	935,965
WELLS	143	161	509			
FOOTAGE	1,607,363	1,792,345	5,704,014	11,240	11,133	11,206
COSTS \$	247,566,314	367,994,407	1,027,343,492	1,731,233	2,285,680	2,018,357
WELLS	90	112	309			
FOOTAGE	1,208,758	1,529,041	4,184,792	13,431	13,652	13,543
COSTS \$	246,450,010	456,431,817	926,274,388	2,738,334	4,075,284	2,997,652
WELLS	13	79	130			
FOOTAGE	206,112	1,281,154	2,091,945	15,855	16,217	16,092
COSTS \$	47,243,463	448,519,389	646,384,294	3,634,113	5,677,461	4,972,187
WELLS	3	42	47			
FOOTAGE	54,457	779,778	875,342	18,152	18,566	18,624
COSTS \$	19,918,463	416,397,530	366,746,832	6,639,488	9,914,227	7,803,124
WELLS	--	17	28			
FOOTAGE	--	384,410	613,167	--	22,612	21,899
COSTS \$	--	163,742,357	363,448,361	--	9,631,903	12,980,299

SUMMARY OF SAMPLE DATA - 1981

DEVELOPMENT WELLS

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS			AVERAGE DEPTH AND COST PER WELL		
	OIL WELLS	GAS WELLS	DRY HOLES	OIL	GAS	DRY
WELLS	1,647	61	246			
FOOTAGE	1,456,527	58,823	192,537	884	964	783
COSTS \$	95,579,799	2,718,656	12,139,208	58,033	44,568	49,346
WELLS	2,146	584	346			
FOOTAGE	3,789,417	1,202,569	666,659	1,766	2,059	1,927
COSTS \$	218,092,482	47,708,714	22,167,394	101,627	81,693	64,068
WELLS	2,640	819	766			
FOOTAGE	8,274,426	2,625,178	2,458,583	3,134	3,205	3,210
COSTS \$	461,755,988	137,323,168	83,202,876	174,908	167,672	108,620
WELLS	1,944	952	708			
FOOTAGE	8,623,291	4,104,891	3,110,346	4,436	4,312	4,393
COSTS \$	505,575,904	244,731,781	118,466,584	260,070	257,071	167,323
WELLS	2,525	1,409	792			
FOOTAGE	15,322,355	8,671,880	4,851,106	6,068	6,155	6,125
COSTS \$	1,133,460,828	672,975,261	258,911,569	448,895	477,626	326,909
WELLS	2,163	1,093	510			
FOOTAGE	18,756,262	9,398,355	4,378,691	8,671	8,599	8,586
COSTS \$	1,880,152,077	1,071,851,918	384,929,502	869,234	980,651	754,764
WELLS	604	740	316			
FOOTAGE	6,596,585	8,164,814	3,477,852	10,921	11,034	11,006
COSTS \$	1,050,907,553	1,345,992,426	453,382,958	1,739,913	1,818,909	1,434,756
WELLS	157	333	153			
FOOTAGE	2,110,948	4,502,043	2,072,865	13,446	13,520	13,548
COSTS \$	449,033,100	1,033,241,614	399,187,467	2,860,084	3,102,828	2,609,069
WELLS	29	157	90			
FOOTAGE	466,927	2,540,261	1,446,690	16,101	16,184	16,074
COSTS \$	137,685,072	843,146,556	336,312,851	4,747,761	5,370,360	3,736,810
WELLS	4	49	17			
FOOTAGE	73,446	908,196	316,172	18,362	18,535	18,598
COSTS \$	22,762,239	346,675,176	120,581,143	5,690,560	7,075,004	7,093,009
WELLS	--	19	3			
FOOTAGE	--	409,295	65,632	--	21,489	21,877
COSTS \$	--	174,832,312	30,971,205	--	9,201,701	10,323,735

SUMMARY OF SAMPLE DATA - 1981

SINGLE-COMPLETION WELLS

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS			AVERAGE DEPTH AND COST PER WELL		
	OIL WELLS	GAS WELLS	DRY HOLES	OIL	GAS	DRY
WELLS	1,622	61	--			
FOOTAGE 0 - 1,249	1,424,334	58,823	--	878	964	--
COSTS \$	94,251,605	2,718,656	--	58,108	44,568	--
WELLS	2,179	613	--			
FOOTAGE 1,250 - 2,499	3,847,276	1,264,015	--	1,766	2,062	--
COSTS \$	222,508,139	51,099,872	--	102,115	83,360	--
WELLS	2,644	850	--			
FOOTAGE 2,500 - 3,749	8,277,167	2,724,220	--	3,131	3,205	--
COSTS \$	463,036,059	143,306,162	--	175,127	168,595	--
WELLS	2,020	1,054	--			
FOOTAGE 3,750 - 4,999	8,950,242	4,553,185	--	4,431	4,325	--
COSTS \$	522,292,120	258,755,342	--	258,560	245,498	--
WELLS	2,699	1,473	--			
FOOTAGE 5,000 - 7,499	16,391,445	9,033,297	--	6,073	6,133	--
COSTS \$	1,203,587,148	686,791,761	--	445,938	466,254	--
WELLS	2,291	1,183	--			
FOOTAGE 7,500 - 9,999	19,864,346	10,215,163	--	8,671	8,635	--
COSTS \$	2,005,516,703	1,182,371,977	--	875,389	999,469	--
WELLS	727	871	--			
FOOTAGE 10,000 - 12,499	7,981,582	9,621,951	--	10,979	11,047	--
COSTS \$	1,250,839,727	1,630,015,149	--	1,720,550	1,371,430	--
WELLS	236	439	--			
FOOTAGE 12,500 - 14,999	3,169,866	5,950,078	--	13,432	13,554	--
COSTS \$	644,504,629	1,459,873,492	--	2,730,952	3,325,452	--
WELLS	41	235	--			
FOOTAGE 15,000 - 17,499	657,620	3,805,371	--	16,040	16,193	--
COSTS \$	179,721,035	1,288,567,905	--	4,383,440	5,483,268	--
WELLS	7	90	--			
FOOTAGE 17,500 - 19,999	127,903	1,669,536	--	18,272	18,550	--
COSTS \$	42,680,702	743,866,665	--	6,097,243	8,320,741	--
WELLS	--	--	--			
FOOTAGE 20,000 & OVER	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--

SUMMARY OF SAMPLE DATA - 1981

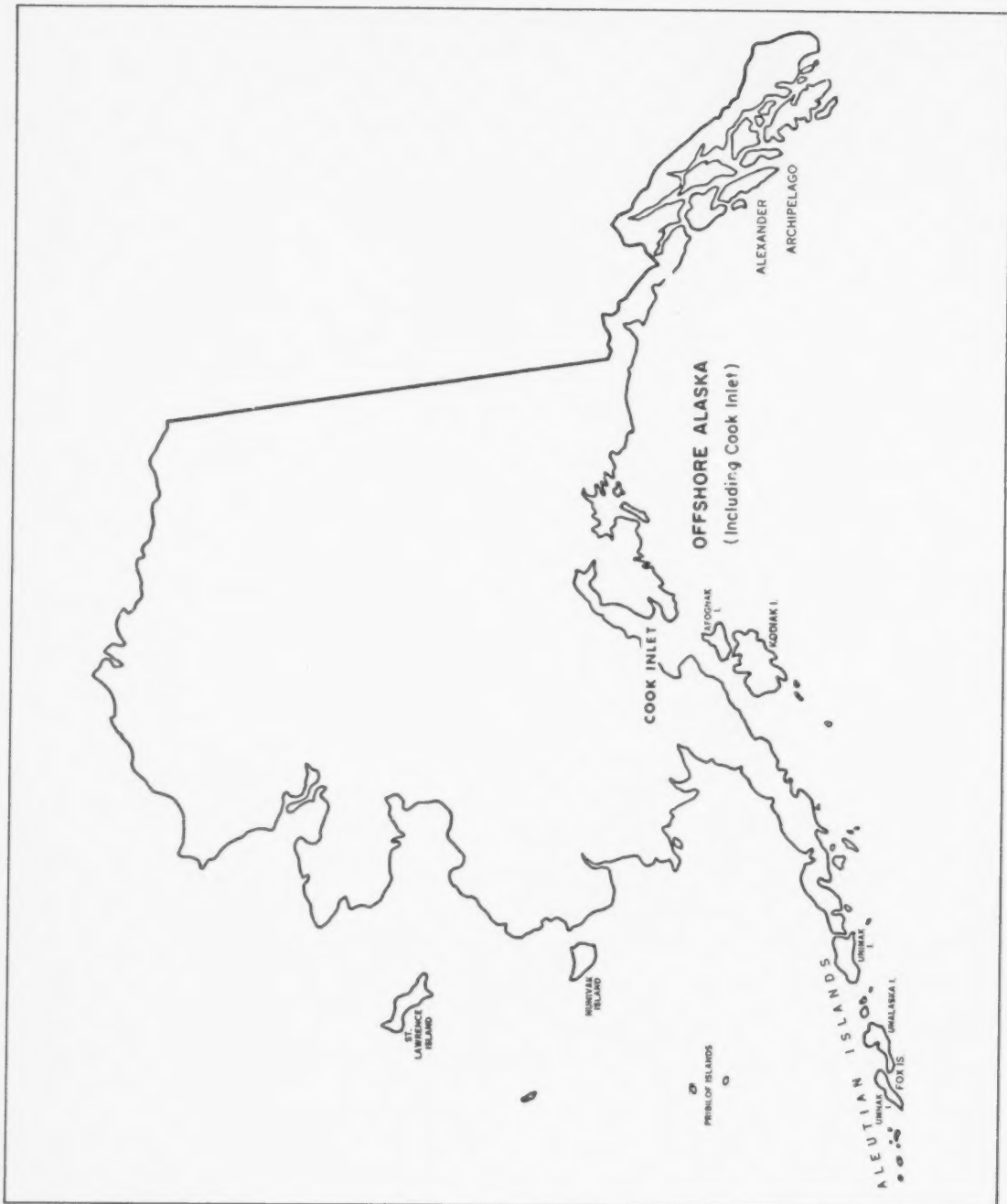
MULTIPLE-COMPLETION WELLS

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS			AVERAGE DEPTH AND COST PER WELL		
	OIL WELLS	GAS WELLS	DRY HOLES	OIL	GAS	DRY
WELLS	43	--	--			
FOOTAGE 0 - 1,249	47,494	--	--	1,105	--	--
COSTS \$	2,184,572	--	--	50,804	--	--
WELLS	27	11	--			
FOOTAGE 1,250 - 2,499	48,779	20,023	--	1,807	1,820	--
COSTS \$	2,537,267	1,476,881	--	93,973	134,262	--
WELLS	66	44	--			
FOOTAGE 2,500 - 3,749	220,875	132,897	--	3,347	3,020	--
COSTS \$	12,331,785	8,466,902	--	186,845	192,430	--
WELLS	84	55	--			
FOOTAGE 3,750 - 4,999	379,365	238,540	--	4,516	4,337	--
COSTS \$	23,283,325	25,059,428	--	277,182	455,626	--
WELLS	61	153	--			
FOOTAGE 5,000 - 7,499	334,509	962,518	--	6,303	6,291	--
COSTS \$	53,523,120	97,485,329	--	877,428	637,159	--
WELLS	60	88	--			
FOOTAGE 7,500 - 9,999	517,285	734,351	--	8,621	8,345	--
COSTS \$	78,963,167	104,349,391	--	1,316,053	1,185,789	--
WELLS	20	30	--			
FOOTAGE 10,000 - 12,499	222,366	335,208	--	11,118	11,174	--
COSTS \$	47,634,140	83,971,634	--	2,381,707	2,799,056	--
WELLS	11	6	--			
FOOTAGE 12,500 - 14,999	149,840	81,006	--	13,622	13,501	--
COSTS \$	50,978,481	29,799,939	--	4,634,408	4,966,657	--
WELLS	--	--	--			
FOOTAGE 15,000 - 17,499	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--
WELLS	--	--	--			
FOOTAGE 17,500 - 19,999	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--
WELLS	--	--	--			
FOOTAGE 20,000 & OVER	--	--	--	--	--	--
COSTS \$	--	--	--	--	--	--

J.A.S. SAMPLE DISTRIBUTION 1977-1981

No. of Wells Drilled	1977		1978		1979		1980		1981	
	No. of Co's	No. of Wells	No. of Co's	No. of Wells	No. of Co's	No. of Wells	No. of Co's	No. of Wells	No. of Co's	No. of Wells
1-4	506	1,045	510	1,061	590	1,198	527	1,129	697	1,484
5-9	206	1,348	235	1,557	240	1,608	223	1,519	350	2,354
10-24	215	3,337	227	3,487	196	2,931	232	3,445	298	4,592
25-49	86	2,850	87	2,994	92	3,156	98	3,418	120	4,110
50-99	38	2,529	39	2,738	32	2,245	43	2,976	67	4,501
100 & over	31	9,211	36	9,786	31	9,434	38	11,667	38	13,403
Total	<u>1,082</u>	<u>20,320</u>	<u>1,134</u>	<u>21,623</u>	<u>1,181</u>	<u>20,572</u>	<u>1,161</u>	<u>24,154</u>	<u>1,570</u>	<u>30,444</u>

MAP I SUBDIVISIONS OF ALASKA



MAP II SUBDIVISIONS OF CALIFORNIA



MAP III SUBDIVISIONS OF LOUISIANA



MAP IV

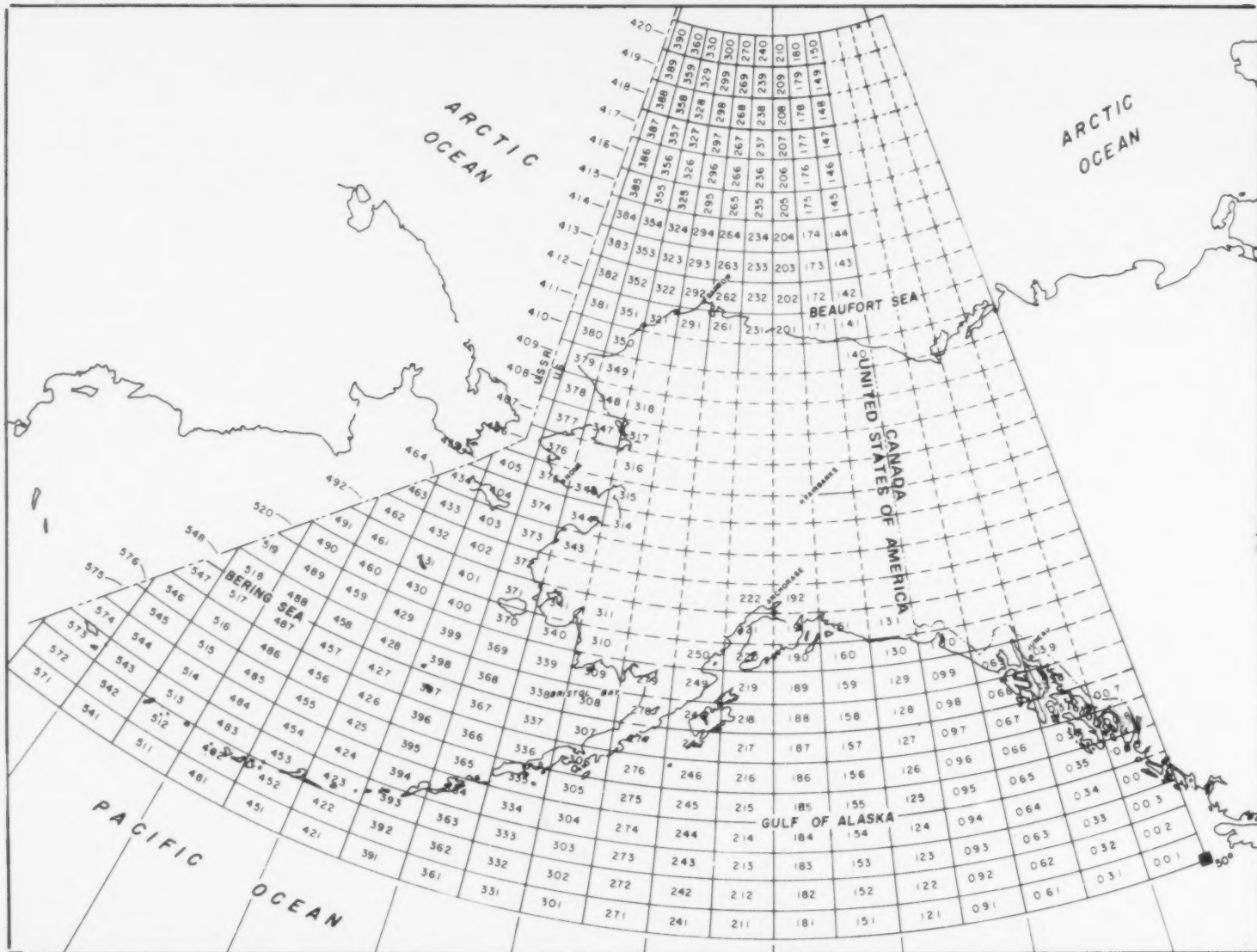


MAP V



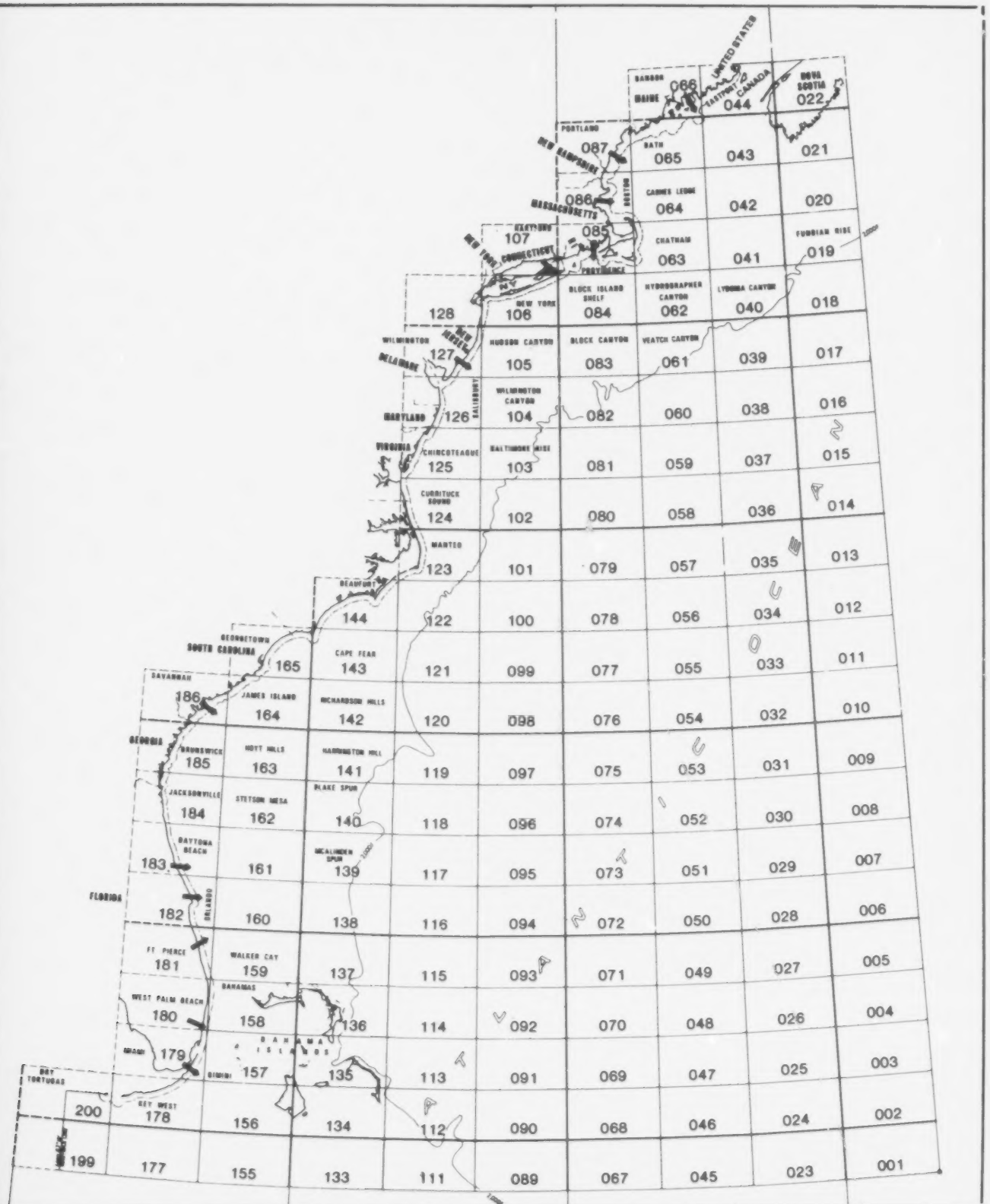
OFFSHORE TEXAS
(Seaward of the Coastline)

**MAP VI
SUBDIVISIONS OF
HORE FEDERAL WA
ALASKA**

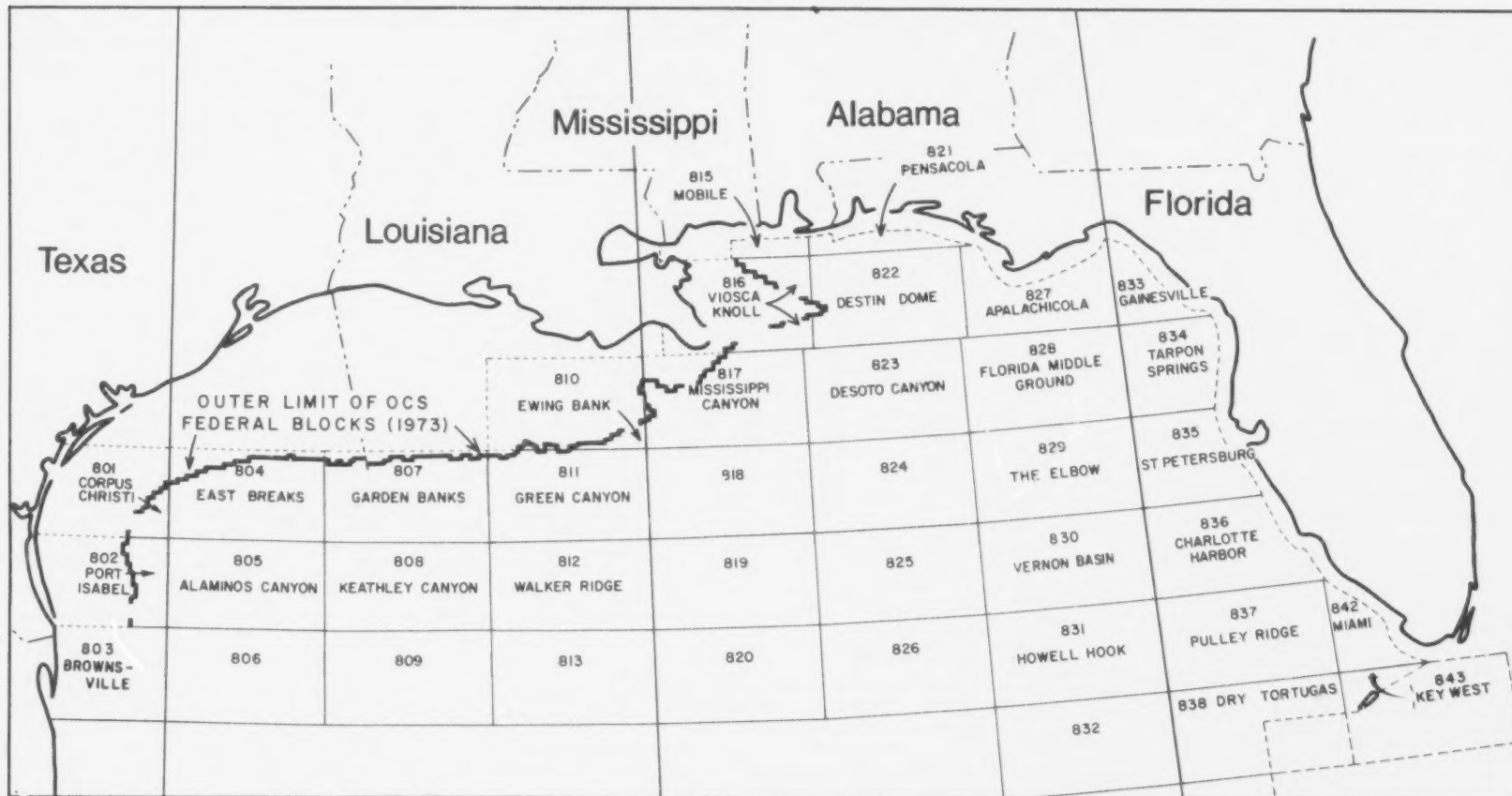


SUBDIVISIONS OF OFFSHORE FEDERAL WATERS ATLANTIC COAST

APPENDIX G, P.7



MAP VIII SUBDIVISIONS OF OFFSHORE FEDERAL WATERS GULF OF MEXICO—Northern



JOINT ASSOCIATION SURVEY METHODOLOGY

API publishes annual estimates of drilling costs in the U.S. based on a sample of approximately 39 percent of all wells drilled and 61 percent of total drilling costs. The results, published in the Joint Association Survey (JAS), show estimated average drilling costs and total drilling expenditures by state (or other political region), by depth, and by well type. API has cost data only for those wells within the JAS sample. Drilling costs for wells not in the sample must be estimated using the information available from other sources on their depth, location, and well type, and the relationship of these variables to drilling cost as observed in the sample.

REGRESSION ESTIMATES OF WELL COSTS. The current JAS methodology, implemented in the 1978 survey, estimates these nonsample costs using standard multiple regression analysis. A "best fit" equation is estimated from the sample data for a given area, and this equation is then used to estimate the cost of nonsample wells based on their depth, location, and well type.

The particular functional form for the regression equation is:

$$(1) \quad \log(\text{cost per foot}) = a + b \, 1/\text{depth} + c \, \text{depth} + d \, \text{depth}^2 + p_1 I_1 + \dots + p_9 I_9$$

where depth is in thousands of feet and I_1 through I_9 are indicator variables for well type.¹

Except for the $1/\text{depth}$ term, this equation is a polynomial, a functional form often used in regression analysis when an *a priori* functional form has not been specified. (Higher order polynomials were investigated but did not improve the fit noticeably). The $1/\text{depth}$ term helps to reflect the decreasing cost per foot observed in the shallower depths in some areas. (As depth increases, $1/\text{depth}$ gets smaller, so that this term's contribution to estimated cost per foot can be larger for shallower depths but quite small at greater depths).

The inclusion of indicator variables allows the level of costs to vary by well type. Since the above equation is in log form, this means that different well types are estimated to be proportional to one another, with the proportions being determined by the regression coefficients of the indicator variables. (When oil, gas, or dry data are regressed separately, fewer indicator variables are needed since there are fewer well types involved in each regression).

¹An indicator variable takes on the value 1 if the observation is a member of a certain class and 0 if it is not.

In the above equation, the nine indicator variables identify whether a well is one of the ten well types (for example, exploratory oil single completion, development gas multiple completion, exploratory dry, and so on). The tenth well type is identified when all indicator variables are 0.

Because equation (1) is in log form, estimates based on it will be biased downwards. Multiplying the original estimates by the correction factor

$$(2) \quad \frac{\text{sum of actual costs for sample}}{\text{sum of estimated costs for sample}}$$

yields unbiased estimates.

PROCEDURE. Once the JAS sample data have been collected and verified, regression estimates for each geographic area are made using equations (1) and (2). In some areas, oil, gas, and dry wells are combined in one equation. When the sample is large enough, a separate equation is used for each of these three well categories. Inevitably, some nonsample wells fall outside the depth range of the sample. Since, statistically speaking, there is no reason to expect the regression estimates to be "reasonable" for these depths where there is no sample, some of these costs must be estimated independently based on costs in similar areas and previous year's data. This was necessary for approximately 5.1 percent of all unreported wells in 1981.